Ps

NP

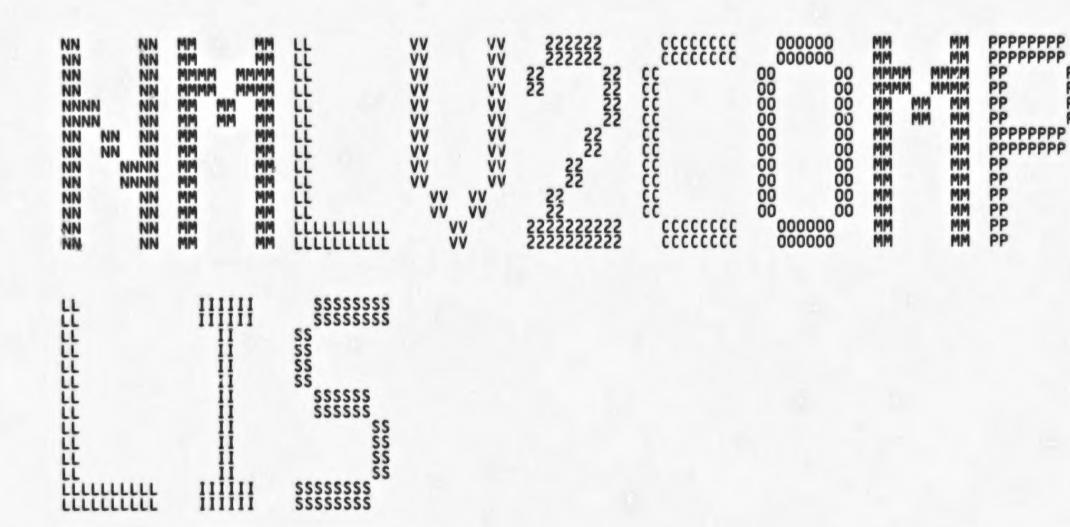
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NML!

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NML VO4

\*\*TITLE 'Process NICE V2.0 requests'
MODULE NML\$V2COMP (IDENT = 'V04-000',
ADDRESSING\_MODE (NONEXTERNAL=GENERAL),
ADDRESSING\_MODE (EXTERNAL=GENERAL)) =

BEGIN

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FACILITY: DECnet-VAX V2.0 Network Management Listener

ABSTRACT:

This module contains the entry points for the the portions of NML dealing with NICE V2 messages.

ENVIRONMENT: VAX/VMS Operating System

AUTHOR: Tim Halvorsen & Kathy Perko, October 1981

MODIFIED BY:

V03-004 MKP0008 Kathy Perko 2-Jan-1984
Get rid of definition for NML\$K\_ENTBUFLEN since it's in NMLLIB now.

V03-003 MKP0007 29-June-1982 Kathy Perko Redo SHOW LINKS to use qualifier logic for WITH NODE commands. Rename some EIT fields.

V03-002 MKP0006 Kathy Perko 28-April-1982 Delete start key and add second search key to NETACP QIO interface.

V03-001 MKP0005 17-Mar-1982 Kathy Perko

NML\$V2COMP	Process NICE V2.0	requests 16-Sep-1984 00:39:41 VAX-11 Bliss-32 V4.0-742 14-Sep-1984 12:50:22 [NML.SRC]NMLV2COMP.B32;1
: 58 59	0058 1 ! 0059 1 !	fix V2-V3 SHOW LINE so that it handles multidrop circuits. I.E. it returns info for DMP-0.1, DMP-0.2, etc.
61	0061 1 vo	2-004 MKP0004 Kathy Perko 1-Mar-1982 Fix ZERO NODE from a V2 node.
62 63 64 65 66 67 68 69	0064 1 voa	2-003 MKP0003 Kathy Perko 31-Jan-1982 Fix NICE message so the line parameter, Receive Buffers is returned as a word.
68	0068 1 V02	2-002 MKP0002 Kathy Perko 4-Jan-1982 Add SHOW LINKS to V2 compatibility.
71 72 73 74 75 76	0071 1 v02 0072 1 0073 1 0074 1 0075 1 0076 1	29-Nov-1981 Add zero counters to V2 compatibility. Also, fix SHOW LINE SUMMARY and STATUS to return 'on-starting' instead of 'synchronizing' for state.

NML VO4

Page (1)

NML VO4

```
NML$V2COMP
V04-000
                                 Process NICE V2.0 requests Declarations
                                                                                                                                                                                     VAX-11 Bliss-32 V4.0-742
[NML.SRCJNMLV2COMP.B32;1
                                                                                                                                                                                                                                                                Page
                                                         nml$send,
nml$mainhandler,
                               11333442345678901234567890123456789012345678901234567890
1133344234567890123456789012345678901234567890
                                                         nmlSerror_1,
nmlSerror_2,
nmlSerror_2,
nmlSshowentity,
nmlSshoparam,
nmlSshoparam,
                                                        nml$shoexeparam,
nml$bldp2,
nml$getinftabs,
nml$bldshowbufs,
                                                          nml$getdata,
                                                         nml$processdata,
nml$addmsgprm,
lib$establish,
lib$revert,
                                                         nma$nparse,
nml$setknown,
                                                         nml$setentity,
                                                         nml$saveparam,
                                                        nml$getexeadr,
nml$getidstring,
nml$showparlist,
nml$bldsetqbf,
                                                         nml$netgio;
                                                EXTERNAL LITERAL cpt$gk_pcci_sta, cpt$gk_pcli_sta;
                                                     The NICE parameter for receive buffers (NMA$C_PCLI_BFN) got changed from 2700 in V2 to 1105 in V3. Because of this, declare a V2 parameter
                                                     id here.
                                                 GLOBAL LITERAL
                                                           nma$c_pcli_bf$ = 2700;
                                0172
0173
0174
0175
0176
0177
0178
0180
0181
0182
0183
0184
0185
                                                     Own storage
                                                OWN
                                                        nml$l_v2_entity:
INITIAL (nml$c_line),
                                                                                                                                    ! Current entity (line or circuit)
                                                                                                                                       New state for a line and circuit.
                                                         nml$1_state,
                                                     Buffers and descriptors.
                                                         NML$T_NFBBUFFER : VECTOR [100, BYTE], ! NFB QIO buffer NML$T_P2BUFFER : VECTOR [NML$K_P2BUFLEN, BYTE], ! P2 QIO buffer NML$T_ENTBUFFER : VECTOR [NML$K_ENTBUFLEN, BYTE]; ! Entity buffer
                                0186
0187
0188
0189
0190
                                                         NML$Q_NFBBFDSC
                                                                                            = UPLIT (%ALLOCATION(NML$T_NFBBUFFER), NML$T_NFBBUFFER) : DESCRIPTOR,
```

VO

Page 5

VO

VO

```
Process NICE V2.0 requests
NML$V2_COMPATIBILITY Process V2.0 NICE messages 14-Sep-1984 12:50:22
NML$V2COMP
                                                                                                                                         VAX-11 Bliss-32 V4.0-742
[NML.SRC]NMLV2COMP.B32;1
                                                                                                                                                                                                 Page
                                                                                                                                                                                                         (3)
    END
                                                 ELSE
                                                        BEGIN
                                                        IF .nml$gb_entity_code EQL nma$c_sent_lnk THEN BEGIN
                                                                                                                                         ! If SHOW LINKS
                                                              nml$v2_show_links (); ! then call processing routine RETURN true; ! and indicate nothing left to
                                                                                                   ! and indicate nothing left to do.
                                                              END:
                                                        END:
                                                 END:
                                        for SET LINE, we do not allow mixed parameters in the same message. That is, we do not allow V2 parameters which map to both V3 lines and circuits in the same request. This avoids having to issue Q10s to both databases
                                         in some cases, and allows us to simply change the entity and use the normal
                                        SET processing.
                                           [nma$c_fnc_cha]:
                                                  IF NOT .nml$gl_prs_flgs [nml$v_prs_vms] AND
                                                                                                                           ! If SET LINE
                                                        (.nml$gb_entity_code EQL nma$c_ent_lin)
                                                       BEGIN
nml$v2_chg_line();
                                                                                                   ! then call processing routine
                                                        RETURN true;
                                                                                                    ! and indicate nothing left to do
                                 とこれというというというというというというというというというというと
                                                        END:
                                        For ZERO LINE counters, change the entity ID from LINE to CIRCUIT (V2 LINE
                                        counters are now V3 CIRCUIT counters), and then return to the normal
                                        path to perform the zero.
                                           [nma$c_fnc_zer]:
    IF .nml$gb_entity_code EQL nma$c_ent_lin THEN
                                                       nml$gb_entity_code = nma$c_ent_cir;
                                       For LOAD/DUMP/TRIGGER/LOOP, NPARSE initialization has not yet processed the entity ID - only the option byte. So, if LINE is indicated by the low bit of the option byte, then change the entity type field (low 3 bits) to CIRCUIT. Else, NODE is indicated, so leave the entity type field zero. Either way, return to the normal path to actually perform the operation.
                                           [nma$c_fnc_loa,
nma$c_fnc_dum,
nma$c_fnc_tri,
nma$c_fnc_tes]:
                                                                                                   ! For LOAD/DUMP/TRIGGER/LOOP
                                                  If .nml$gb_options <0,1>
                                                                                                   ! If low bit (line/node) set,
                                                        nml$gb_options [nma$v_opt_ent] = nma$c_ent_cir ! Mark CIRCUIT
```

NMI

```
Process NICE V2.0 requests 16-Sep-1984 00:39:41 NML$V2_COMPATIBILITY Process V2.0 NICE messages 14-Sep-1984 12:50:22
NML$V2COMP
V04-000
                                                                                                                                                            VAX-11 Bliss-32 V4.0-742
ENML.SRCJNMLV2COMP.B32;1
                                                                                                                                                                                                                                     (3)
                                                        nml$gb_options [nma$v_opt_ent] = nma$c_ent_nod; ! Else, mark NODE
CH$WCHAR(.nml$gb_options, .nml$ab_npa_blk [npa$l_fldptr]);
                                                         END:
                                                 TES:
                                          RETURN false;
                                                                                                                 ! Indicate that caller must handle it
                                          END:
                                                                                                                                                 NML$V2COMP Process NICE V2.0 requests \V04-000\
                                                                                                                                   .TITLE
                                                                                                                                   .PSECT $PLIT$, NOWRT, NOEXE, 2
                                                                                        00000064
00000000°
00000068
00000000°
                                                                                                          00000 P.AAA:
00004
00008 P.AAB:
                                                                                                                                   .LONG
                                                                                                                                                 100
                                                                                                                                   .ADDRESS NML$T_NFBBUFFER
                                                                                                                                    .ADDRESS NML$T_P2BUFFER
                                                                                                                                   .PSECT $0WN$,NOEXE,2
                                                                                                          00000 NML$L_V2_ENTITY:
                                                                                         00000000
                                                                                                          00004 NML$L_STATE:
                                                                                                                                    .BLKB
                                                                                                          00008 NML$T_NFBBUFFER:
                                                                                                                                    .BLKB
                                                                                                          0006C NML$T_P2BUFFER:
                                                                                                                                    .BLKB
                                                                                                          000D4 NML$T_ENTBUFFER:
                                                                                                                                    BLKB
                                                                                                          00114 NMLSQ_ENTBFDSC:
                                                                                        00000000
                                                                                                                                   .LONG
                                                                                                                                   .ADDRESS NMLST_ENTBUFFER
                                                                                        00000000 00118
                                                                                                                    NMASC_PCLI_BFS==
NMLSQ_NFBBFDSC=
NMLSQ_P2BFDSC=
                                                                                                                                                        P.AAA
                                                                                                                                               P.AAB

NML$GB_NCP_VERSION

NML$AB_NPA_BLK, NML$NPA_SETV2LINE

NML$NPA_CLEARV2LINE

NML$GB_EVTSRCTYP

NML$GB_EVTSRCDSC

NML$GB_EVTMSKTYP

NML$GB_EVTMSKTYP

NML$GB_EVTMSKDSC

NML$GW_EVTSNKADR

NML$GW_EVTSNKADR

NML$GW_ACP_CHAN

NML$GW_ACP_CHAN

NML$GB_LOGMASK, NML$GQ_ENTSTRDSC

NML$AB_QIOBUFFER

NML$AB_QIOBUFFER

NML$GQ_QIOBFDSC

NML$AB_EXEBUFFER

NML$GQ_EXEDATDSC

NML$GQ_EXEDATDSC

NML$GQ_EXEBFDSC
                                                                                                                                                        P.AAB
                                                                                                                                   .EXTRN
                                                                                                                                   .EXTRN
                                                                                                                                   .EXTRN
                                                                                                                                   .EXTRN
                                                                                                                                    .EXTRN
                                                                                                                                    EXTRN
                                                                                                                                    .EXTRN
                                                                                                                                    .EXTRN
                                                                                                                                    .EXTRN
                                                                                                                                    .EXTRN
                                                                                                                                   .EXTRN
                                                                                                                                   .EXTRN
                                                                                                                                    .EXTRN
                                                                                                                                   .EXTRN
                                                                                                                                   .EXTRN
                                                                                                                                   .EXTRN
                                                                                                                                   .EXTRN
```

VO

NML \$V2COMP V04-000	Process NICE V2.0 req NML\$V2_COMPATIBILITY	vests Process V2.0 NI	CE messages 14-	EXTRN	:41 VAX-11 BLISS-32 V4.0-742 :22 [NML.SRCJNMLV2COMP.B32;1  NML\$AB_RCVBUFFER NML\$GQ_RCVBFDSC NML\$GQ_SNDBFDSC NML\$GG_SNDBFDSC NML\$GB_RCVDATLEN NML\$AB_CPTABLE, NML\$AB_MSGBLOCK NML\$AB_ENTITY_ID NML\$AB_ENTITY_ID NML\$AB_ENTITYDATX NML\$AB_ENTITYDATX NML\$AB_NML_NMV, NML\$AB_PRMSEM NML\$AB_RCBUF, NML\$AB_ENTINFTAB NML\$AB_PRMINFTAB NML\$AB_PRMINFTAB NML\$AW_PRM_DES, NML\$GB_CMD_VER NML\$GB_ENTITY_CODE NML\$GB_ENTITY_CODE NML\$GB_ENTITY_FORMAT NML\$GB_ENTITY_FORMAT NML\$GB_ENTITY_FORMAT NML\$GB_INFO, NML\$GB_OPTIONS NML\$GB_INFO, NML\$SEND NML\$GB_INFO, NML\$SEND NML\$BLDSHOWBUFS NML\$BLDSHOWBUFS NML\$BLDSHOWBUFS NML\$BLDSHOWBUFS NML\$GETIDATA, NML\$SETENTITY NML\$GETIDATA, NML\$SETENTITY NML\$GETIDATA, NML\$SETENTITY NML\$GETIDATA, NML\$SETENTITY NML\$SETKNOWN, NML\$SETENTITY NML\$SETENDATALIST NML\$SHOWPARLIST	Page 9
				.PSECT	\$CODE\$, NOWRT, 2	
		54 000000006 53 000000006 52 000000006 6D 000000006 02 000000006 50 000000006 14	001C 00000 00 9E 00002 00 9E 00009 00 9E 00017 00 9E 00017 00 91 0001E 76 12 00025 00 9A 00027 50 91 0002E 22 12 00031 62 9A 00033 64 E8 00036	ENTRY MOVAB MOVAB MOVAB MOVAB CMPS BNEQ MOVZBL CMPB BNEQ MOVZBL BLBS	NML\$V2_COMPATIBILITY, Save R2,R3,R4 NML\$GL_PRS_FLGS, R4 NML\$GB_OPTIONS, R3 NML\$GB_ENTITY_CODE, R2 NML\$MAINHANDLER, (FP) NML\$GB_NCP_VERSION, #2 8\$ NML\$GB_FUNCTION, R0 R0, #20 2\$ NML\$GB_ENTITY_CODE, R1 NML\$GL_PRS_FLGS, 1\$	0221 0244 0252 0256 0267 0272 0270

NML\$V2COMP V04-000	Process NICE V2.0 requ NML\$V2_COMPATIBILITY F	rocess V2.0 NI	CE mess	16-S ages 14-S	4 ep-1984 00:39 ep-1984 12:50	9:41 VAX-11 Bliss-32 V4.0-742 0:22 [NML.SRC]NMLV2COMP.B32;1	Page 10 (3)
		01	51 D1	00039	CMPL	R1, #1 8\$	: 0272
	00000000v	00	5F 12	0003C 0003E	CALLS	#0, NML\$V2_SHOW_LINE	0275
		07	51 91	00045	: CMPB	#0, NML\$V2_SHOW_LINE 3\$ R1, #7	0275 0276 0281
	00000000v	00	00 FB	0004A 0004C	CMPL BNEQ CALLS BRB CMPB BNEQ CALLS	85 #0, NML\$V2_SHOW_LINKS	2
		13	50 91	00055 28	: CMPB	80. W19	0283 0284 0297
		40	13 12 64 E8 62 91 3B 12 00 FB 01 D0	00058 0005A 0005D	BLBS CMPB	NML\$GL_PRS_FLGS, 8\$ NML\$GB_ENTITY_CODE, #1	0299
	00000000v	00 50	3B 12 00 FB 01 D0	00060 00062 00069 3\$	BRB  CMPB BNEQ BLBS CMPB BNEQ CALLS MOVL RET	8\$ #0. NML\$V2_CHG_LINE #1. RO	0303 0304
		15	50 91	0006C 0006D 48	: CMPB	RO, #21	0312
		01	50 91 0A 12 62 91 26 12 03 90 21 11	00070 00072	CMPB	NML\$GB_ENTITY_CODE, #1	0313
		62	03 90	00075 00077	MOVB	85 #3, NML\$GB_ENTITY_CODE	0314
		OF	50 91	0007A 0007C 5\$	: CMPB	RO, #15	0314 0313 0324
		12	50 91	0007F 00081	: CMPB BNEQ CMPB BNEQ MOVB BRB : CMPB BLSSU CMPB BGTRU	8\$ RO, #15 8\$ RO, #18	
63	03	07	63 E9 03 F0	00084 00086 00089	INSV	NML\$GB_OPTIONS, 6\$	0330 0332
		63 50 000000006 60	63 E9 03 F0 03 11 07 8A 00 D0 63 90 50 D4	0008E 00090 6\$ 00093 7\$	: MOVL	#7, NML\$GB_OPTIONS NML\$AB_NPA_BLK+20, R0 NML\$GB_OPTIONS, (R0) R0	0334 0335
		60	63 90 50 04 04	0009A 0009D 8\$ 0009F	MOVB	NML\$GB_OPTIONS, (RO)	0342

Routine Base: \$CODE\$ + 0000

; Routine Size: 160 bytes,

```
NML$V2COMP
V04-000
                         Process NICE V2.0 requests

NML$V2_SHOW_LINE V2 compatibility read line ro 14-Sep-1984 12:50:22
                                                                                                                                          VAX-11 Bliss-32 V4.0-742
ENML.SRCJNMLV2COMP.B32;1
                                                                                                                                                                                                   Page
                                     %SBTTL 'NML$V2_SHOW_LINE V2 compatibility read line routine' ROUTINE NML$V2_SHOW_LINE : NOVALUE =
    345
346
347
348
350
351
                                        FUNCTIONAL DESCRIPTION:
                                        FORMAL PARAMETERS:
                                        IMPLICIT INPUTS:
                                                  NML$GB_INFO contains the information type.
    356
357
    358
    359
                                     BEGIN
    360
    361
362
363
364
365
366
371
372
373
376
377
                                     LOCAL
                                            INDEX;
                                                                                                    ! Index into list descriptor table
                         0361
0362
0363
                                            NML$GB_ENTITY_FORMAT : BYTE SIGNED:
                         0364
0365
                                        Information can be read only from volatile data bases.
                         0367
                         0368
0369
                                     IF NOT .NML$GB_OPTIONS [NMA$v_OPT_PER] ! If volatile database requested,
                                     THEN
                                            BEGIN
                        0372
0373
0374
0375
0376
0377
                                              Read volatile data base
                                            INDEX =
                                                  (SELECTONEU .NML$GB_INFO
    378
379
                                                        [NMASC_OPINF_SUM]: NMLSC_SUMMARY;
[NMASC_OPINF_STA]: NMLSC_STATUS;
[NMASC_OPINF_CHA]: NMLSC_CHARACTERISTICS;
[NMASC_OPINF_COU]: NMLSC_COUNTERS;
[OTHERDISE]: -1; ! Option error
    380
381
382
383
384
385
                        0378
0379
                         0380
                         0381
                         0382
                                                        TES):
    386
387
                                                .INDEX NEQU -1
                                            IF . I
    388
389
                         0386
0387
                                                  BEGIN
    390
391
                         0388
                                                     Dispatch to the appropriate SHOW routine. Note that V2 lines are considered circuits by V3.
                         0389
    392
393
                         0390
                         0391
    394
395
396
397
                         0392
                                                  SELECTONEU .NML$GB_ENTITY_FORMAT OF
                                                        SET
                                                      [NMASC_ENT_ACT]:
NME_V2_DISPATCH (NMLSC_CIRCUIT,
NML_V2_SHOWACTIVE,
INDEX,
0, 0);
                         0394
    398
399
                         0396
0397
                                                                                                                                Routine
    400
                         0398
                                                                                                                                Info code
    401
```

NML\$V2COMP V04-000	B 15 Process NICE V2.0 requests 16-Sep-1984 00:39:41 VAX-11 Bliss-32 V4.0-742 NML\$V2_SHOW_LINE V2 compatibility read line ro 14-Sep-1984 12:50:22 [NML.SRC]NMLV2COMP.B32;1	Page 12 (4)
402 403 404 405 406 407 408 409 410		
412 413	0400 4	
414 415 416 417 418 419 420 421 422 423 424	0414 4 TES; 0415 4 0416 4 NML\$ERROR_2 (NMA\$C_STS_IDE, ! Identification error 0417 4 NMA\$C_ENT_LIN); 0418 3 END; 0419 2 END;	
423 424 425	0420 2 0421 2 NML\$ERROR_1 (NMA\$C_STS_FUN); ! Send option error message 0422 2 0423 1 END; ! End of NML\$READ	
425		
	000C 00000 NML\$V2_SHOW_LINE: .WORD Save R2,R3 00000000G 00 95 00002 TSTB NML\$GB_OPTIONS 03 18 00008 BGEQ 1\$ 0090 31 0000A BRW 11\$	034
	03 18 00008 BGEQ 1\$ 0090 31 0000A BRW 11\$ 50 00000000G 00 9A 0000D 1\$: MOVZBL NML\$GB_INFO, RO 04 12 00014 BNEQ 2\$ 53 D4 00016 CLRL INDEX	037 037

		0000	DOOD HULLSAN	- SHOW FIL	Save D2 D7	. 03//
	000000006	00 95 00 03 18 00	0002 0008	TSTB BGEQ	Save R2,R3 NML\$GB_OPTIONS 1\$	0344
	50 000000006	0090 31 00 00 9A 00	000A 000D 1\$:	BRW MOVZBL	11\$ NML\$GB_INFO, RO	0375 0378
		53 D4 00	0014 0016 0018	BNEQ CLRL BRB CMPB	2\$ INDEX 6\$	0378
	01	50 91 0	001A 2\$:	CMPB BNEQ	RO, #1	0379
	53	01 DO 00	001F 0022	MOVL BRB	#1, INDEX	
	02	50 91 00 05 12 00	0024 <b>3\$</b> :	CMPB BNEQ	RO, #2	0380
	53 03	02 D0 00 00 11 00	0029 002C	MOVL BRB	%2, INDEX	0381
	53	50 91 00 05 12 00 02 D0 00 00 11 00 50 91 00 05 12 00 03 D0 00	002E 48:	BRB CMPB BNEQ MOVL	RO, #3 5\$ #3, INDEX	. 0361
		03 11 0	0036 0038 5\$:	BRB MNE GL	6\$ #1, INDEX	0382
FFFFFFF	53 8F	PT	003B 6\$:	CMPL BEQL CVTBL	INDEX, #-1 11\$	0382 0385
FE	52 00000000G 8F	52 91 0	0044 004B	CVTBL CMPB BNEQ	NML\$GB_ENTITY_FORMAT, R2 R2, #-2 7\$	0392 0395
		0C 12 00 7E 7C 00	004F 0051	CLRQ	-(SP)	0396

NM VO

NML\$V2COMP V04-000	NML\$V2_SHOW_LINE V2 C	ompatibility r	16-Sep-1984 00:39:41 VAX-11 Bliss-32 V4.0-742 ad line ro 14-Sep-1984 12:50:22 [NML.SRCJNMLV2COMP.B32:1	Page 13 (4)
	FF	00000000V 8F	53 DD 00053 00 9F 00055 2B 11 0005B 52 91 0005D 78: CMPB R2. #-1 0C 12 00061 BNEQ 8\$	0398 0398 0401
		00000000v	7E 7C 00063 CLRQ -(SP) 53 DD 00065 PUSHL INDEX 00 9F 00067 PUSHAR NML V2 SHOWKNOWN	0404 0404 0402
		10 00000000G	1E 13 00071 BEQL 10\$ 52 91 00073 CMPB R2, #16 19 1A 00076 BGTRU 10\$ 00 9F 00078 PUSHAB NML\$AB ENTITY ID	0
	00000000v	00000000v	52 DD 0007E PUSHL R2 53 DD 00080 PUSHL INDEX 00 9F 00082 PUSHAB NML_V2_SHOWLINE 09 DD 00088 98: PUSHL #9 05 FB 0008A CALLS #5, NML_V2_DISPATCH	0408 0411 0410 0408
	000000000	7E	01 DD 00091 105: PUSHL #1	0416
	000000006	00 7E 00	09 CE 00093 MMEGL #9, -(SP) 02 FB 00096 CALLS #2, NML\$ERROR_2 01 CE 0009D 11\$: MNEGL #1, -(SP) 01 FB U00A0 CALLS #1, NML\$ERROR_1 04 000A7 RET	0421

```
Process NICE V2.0 requests

NML_V2_DISPATCH Dispatch to V2 show or set rou 14-Sep-1984 12:50:22
NML$V2COMP
V04-000
                                                                                                                                VAX-11 Bliss-32 V4.0-742
ENML.SRCJNMLV2COMP.B32:1
                                   %SBTTL 'NML_V2_DISPATCH Dispatch to V2 show or set routine'
ROUTINE NML_V2_DISPATCH (ENT, RTN, INF, PRM1, PRM2, PRM3) : NOVALUE =
   FUNCTIONAL DESCRIPTION:
                                               This routine is called when processing a show or set command from a V2 system. It dispatches to the appropriate V2 show or
                                              set routine.
                                      FORMAL PARAMETERS:
                                                                     Entity type code.
Address of entity routine to be called.
Information identity code (index).
                                               ENT
                                               INF
                                                                      Routine parameter value.
Routine parameter value.
                                               PRM1
                                              PRM2
PRM3
                                                                      Routine parameter value.
                                   BEGIN
                                   LOCAL
                                        MSG_SIZE:
                                      Send success with multiple responses message.
                                   NML$BLD_REPLY (UPLIT(0, NMA$C_STS_MOR), MSG_SIZE);
NML$SEND (NML$AB_SNDBUFFER, .MSG_SIZE);
                       0454
0455
0456
0457
0458
                                      Enable condition handler to allow done message to be sent.
                                   LIBSESTABLISH (NMLSMAINHANDLER):
                       0460
0461
                                     Call entity-specific routine.
                       0462
0463
                                   (.RTN) (.ENT, .INF, .PRM1, .PRM2, .PRM3);
                       0464
                                      Signal done message.
                       0465
                       0466
0467
0468
0469
                                   LIBSREVERT ():
NMLSERROR_1 (NMASC_STS_DON):
                                                                                    Disable condition handler
                                                                                  ! Signal no more responses
                                  END:
                                                                                  ! End of NML_V2_DISPATCH
```

.PSECT \$PLIT\$, NOWRT, NOEXE, 2

Page

(5)

V0

00000002 00000000 00010 P.AAC: .LONG 0, 2

.PSECT \$CODE\$, NOWRT, 2

NML\$V2COMP V04-000	Process NICE V2.0 requ NML_V2_DISPATCH Dispa	est:	to V2 show	or	set	16-S	ep-1984 00:39: ep-1984 12:50:	:41 :22	VAX-11 Bliss-32 V4.0-742 [NML.SRC]NMLV2COMP.B32;1	Page 15 (5)
		5E		06	0000	00000 NM	L_V2_DISPATCH: .WORD SUBL2	Save	nothing	: 0425
	00000000G	00	00000000.	5E	DD 9F	00005	PUSHL PUSHAB	SP P. AAC		0453
			000000006	6E	DD 9f	00014 00016	PUSHL PUSHAB	MSG S	8 SNDBUFFER	0454
	000000006	00	000000006	00	9F FB	00023	CALLS PUSHAB CALLS	MMLSM	MESSEND AINHANDLER IBSESTABLISH	0458
		7E 7E	14 00 04	AC AC	7D 7D DD	00030 00034 00038	MOVQ MOVQ PUSHL	PRM2, INF, ENT	-(SP) -(SP)	0462
	00000000G 00000000G	BC 00 7E 00	80	AC 05 00 8F 01	FB FB FB	0003B 0003F 00046 0004A 00051	CALLS CALLS CVTBL CALLS RET	#5, a #0, L #-128	RTN IB\$REVERT , -(\$P) ML\$ERROR_1	0466 0467 0469

; Routine Size: 82 bytes, Routine Base: \$CODE\$ + 0148

```
NML$V2COMP
V04-000
                    Process NICE V2.0 requests 16-Sep-1984 00:39:41 NML_V2_SHOWKNOWN Show known V2 line parameters 14-Sep-1984 12:50:22
                                                                                                                 VAX-11 Bliss-32 V4.0-742

ENML.SRCJNMLV2COMP.B32;1
                                                                                                                                                               Page 16 (6)
                    0470
0471
0472
0473
                              **SBTTL 'NML_V2_SHOWKNOWN Show known V2 line parameters' ROUTINE NML_V2_SHOWKNOWN (ENTITY, INF) : NOVALUE =
   FUNCTIONAL DESCRIPTION:
                                         This routine reads the volatile data base entries for all
                                         lines.
                                 FORMAL PARAMETERS:
                                         ENTITY
                                                             Entity type code.
Information type code.
                                         INF
                              BEGIN
                              LOCAL
                                         BUFEND,
                                         LENGTH,
                                         LISDSC : DESCRIPTOR,
                                        PTR,
STATUS,
                                         STRTFLG:
                              STRTFLG = FALSE:
                              WHILE NML$GET_ENTITY_IDS (.ENTITY, NMA$C_ENT_KNO, O, .STRTFLG, LISDSC) DO
                                   BEGIN
                                   STRTFLG = TRUE:
                                   BUFEND = .LISDSC [DSC$A_POINTER] + .LISDSC [DSC$W_LENGTH];
                                   PTR = .LISDSC [DSC$A_POINTER];
                                   WHILE .PTR LSSA .BUFEND DO
                                         BEGIN
                                        LENGTH = .(.PTR)<0,16>;
PTR = .PTR + 2;
                                         NML_V2_SHOWLINE (.ENTITY, .INF, .LENGTH, .PTR);
                                         PTR = .PTR + .LENGTH;
                                                                       ! Advance pointer
                    0514
0515
                                         END;
                                   END:
                    0516
0517
                              END:
                                                                        ! End of NML_V2_SHOWKNOWN
```

003C 00000 NML\_V2\_SHOWKNOWN: Save R2,R3,R4,R5 #8, SP STRTFLG WORD 04 00002 SUBL 2

0471

NM VO

5E

CLRL

0494

NML\$V2COMP V04-000	Process NICE V2.0 requests NML_V2_SHOWKNOWN Show know	wn V2 line	G 15 16-Sep-1984 00:39:41 VAX-11 Bliss-32 V4.0-742 parameters 14-Sep-1984 12:50:22 [NML.SRC]NMLV2COMP.B32;1	Page 17 (6)
VU4-UUU	7E 00000000G 2A 53 55 55 55 55 55	4008 04 04	8F BB 00007 18: PUSHR	0496 0499 0501 0502 0504
	00000000v 7E 000 52	04	52 DD 00033 54 DD 00035 AC 7D 00037 O4 FB 0003B 54 CO 00042 E4 11 00045 O4 00047 3\$: RET	0510 0512 0504 0517

; Routine Size: 72 bytes, Routine Base: \$CODE\$ + 019A

```
H 15
NML$V2COMP
V04-000
                    Process NICE V2.0 requests
NML_V2_SHOWACTIVE Show active line parameters
                                                                                  16-Sep-1984 00:39:41
14-Sep-1984 12:50:22
                                                                                                                 VAX-11 Bliss-32 V4.0-742
[NML.SRCJNMLV2COMP.B32;1
                               **XSBTTL 'NML_V2_SHOWACTIVE Show active line parameters' ROUTINE NML_V2_SHOWACTIVE (ENTITY, INF) : NOVALUE =
   FUNCTIONAL DESCRIPTION:
                                         This routine reads the volatile data base entries for all
                                         Lines.
                                 FORMAL PARAMETERS:
                                         ENTITY
                                                             Entity type code.
Information type code.
                              BEGIN
                              LOCAL
                                         BUFEND,
                                         LENGTH,
LISDSC : DESCRIPTOR,
                                         PTR,
STATE : BYTE,
                                         STATUS.
STRTFLG:
                              STRTFLG = FALSE:
                              WHILE NMLSGET_ENTITY_IDS (.ENTITY, NMASC_ENT_ACT, O, .STRTFLG, LISDSC) DO
                                   BEGIN
                                   STRTFLG = TRUE:
                                   BUFEND = .LISDSC [DSC$A_POINTER] + .LISDSC [DSC$W_LENGTH];
PTR = .LISDSC [DSC$A_POINTER];
                                   WHILE .PTR LSSA .BUFEND DO
                                         BEGIN
                                           Get line or circuit state.
                                         STATE = .(.PTR)<0,8>;
                                         PTR = .PTR + 4:
                                         LENGTH = .(.PTR)<0,16>;
                                         PTR = .PTR + 2;
                                           Process line or circuit.
                                         IF .STATE NEG NMASC_STATE_OFF
                                         THEN
                    0570
0571
0572
0573
0574
                                             NML_V2_SHOWLINE (.ENTITY, .INF, .LENGTH, .PTR);
                                         PTR = .PTR + .LENGTH; ! Advance pointer
                                         END:
```

VC

NML\$V2COMP	Process NICE V2.0 requi	ests w active li	ne par	meters	1 15 16-Sep- 14-Sep-	1984 00:39 1984 12:50	9:41 VAX-11 Bliss-32 V4.0-742 0:22 [NML.SRC]NMLV2COMP.B32;1	Page 19 (7)
580 581 582	0575 2 END; 0576 2 0577 1 END;	VE						
				)07C 00	000 NML_V	2_SHOWACT: .WORD SUBL2 CLRL PUSHR CLRL PUSHL CALLS BLBC MOVZWL ADDL2 MOVZWL CMPL BGEQU MOVB ADDL2 MOVB ADDL2 MOVB ADDL2 MOVB ADDL2 MOVB ADDL2 MOVB BEQL PUSHL	IVE:	0510
		5E	08	CS 00	200	SUBL2	38VE K2,K3,K4,K3,K0 #8, SP	0519
		400	08 53 8 8F 7E	D4 00 BB 00 D4 00	007 1\$:	PUSHR	**M <r3,sp></r3,sp>	0545 0547
		7E 0	4 02	CE 00	00b 010	PUSHI	#2, -(SP)	
	000000006		4 AC 05 50	DD 00 FB 00 E9 00	013 014	CALLS	#5, NMLSGET_ENTITY_IDS	•
		53 56	01 6E	00 00 30 00	01D 020	MOVL	W1, STRTFLG LISDSC, BUFEND	0550 0552
		00 35 53 56 56 52 56	01 6E 4 AE 52 07	3C 00 CO 00 DO 00	023 027	MOVL	IVE: Save R2,R3,R4,R5,R6 #8, SP STRTFLG #^M <r3,sp> -(SP) #2,-(SP) ENTITY #5, NML\$GET_ENTITY_IDS R0, 4\$ #1, STRTFLG LISDSC, BUFEND LISDSC+4, BUFEND LISDSC+4, PTR PTR, BUFEND 1\$</r3,sp>	0553 0555
			52	D1 00 1E 00	02B 2\$: 02E	BGEQU	PTR, BUFEND	
		55 52 54 01	63	90 00	030 033	ADDL2	(PTR)+, STATE #3, PTR (PTR)+, LENGTH STATE, #1	9560 9561
		01	55	3C 00 91 00	036 039	CMPB	STATE, #1	; 0563 ; 0568
			52 52	DD 00	03E	PUSHL	PTR	0570
	0000000v	7E 0	4 AC	DD 00 7D 00 FB 00	042	MOVQ	ENTITY, -(SP)	•
	00000000	52	03 82 55 57 52 54 4 AC 04 54	CO 00	04D 38:	ADDL2 BRB	LENGTH ENTITY, -(SP) #4, NML_V2_SHOWLINE LENGTH, PTR 2\$	0572 0555 0577
				04 00	052 48:	RET		: 0577

; Routine Size: 83 bytes, Routine Base: \$CODE\$ + 01E2

```
15
NML$V2COMP
V04-000
                              Process NICE V2.0 requests
NML_V2_SHOWLINE Show V2 line parameters
                                                                                                                          16-Sep-1984 00:39:41
14-Sep-1984 12:50:22
                                                                                                                                                                         VAX-11 Bliss-32 V4.0-742
ENML.SRCJNMLV2COMP.B32;1
                                                                                                                                                                                                                                              Page
                                              **XSBTTL 'NML_v2_SHOWLINE Show v2 line parameters' ROUTINE NML_v2_SHOWLINE (ENTITY, INF, LEN, ADR) : NOVALUE =
     FUNCTIONAL DESCRIPTION:
                                                             This routine reads the volatile data base entries for all V2 lines - I.E. it gets the appropriate LINE and CIRCUIT parameters from the V3 NETACP to do a show for a V2 NCP. The reason the routine is as messy as it is, is so that the V2-V3 compatibility code can be easily thrown away for V4.
                                                 FORMAL PARAMETERS:
                                                                                           Entity ID
Information type code.
Length of entity id string.
Address of entity id string.
                                                             ENTITY
                                                             INF
                                                             LEN
                                                             ADR
                                              BEGIN
                                                 Data for SHOW LINE CHARACTERISTICS.
                                             BIND
                                                     NML$GQ_LINBFDSC = NML$GQ_EXEBFDSC: DESCRIPTOR,
NML$GQ_LINDATDSC = NML$GQ_EXEDATDSC: DESCRIPTOR,
NML$GL_LINDATPTR = NML$GL_EXEDATPTR;
     614
615
616
617
                                             BIND ROUTINE
                                                      NML$SHOLINBYTE = NML$SHOEXEPARAM,
                                                      NML$SHOLINWORD = NML$SHOEXEPARAM:
     618
                                             MACRO
                                                     CHAR_PARAMS =
                                                                                   NML$SHOPARAM
NML$SHOPARAM
NML$SHOPARAM
NML$SHOPARAM
NML$SHOLINBYTE
NML$SHOLINBYTE
NML$SHOLINBYTE
                                                              PCCI, SER,
PCCI, LCT,
PCCI, BLO,
     620
621
623
623
624
625
626
627
628
633
633
633
633
638
638
                                                                                                                              Line service
Line line counter
                                                             PCCI.
PCLI.
PCLI.
PCLI.
PCLI.
PCLI.
                                                                                                                              Block size
                                                                          cos,
                                                                                                                              Cost
                                                                          CON
                                                                                                                              Controller
                                                                          DUP
                                                                                                                              Duplex
                                                                          PRO.
STI.
RTT.
                                                                                                                              Protocol (V2 Type)
Service Timer
                                                                                    NML$SHOLINWORD
NML$SHOLINWORD
                                                                                                                              Retransmit Timer (V2 normal timer)
                                                                          TRI.
                                                                                    NML$SHOPARAM
                                                                                                                              Tributary
Receive buffers
                                                                                    NML$SHOLINWORD
                                              EXT_LIST (CHAR_PARAMS);
PRM_LIST (LIN, V2(HA, CHAR_PARAMS);
                                                  NFB to get the V2 line parameters that are circuit parameters in V3.
                                             $NFBDSC (NML$Q_CIRC_NFBDSC, SHOW, , CRI
,NAM, ! Search key one = circuit name, oper1 = eql
```

V

```
K 15
NML$V2COMP
V04-000
                      Process NICE V2.0 requests
NML_V2_SHOWLINE Show V2 line parameters
                                                                                        16-Sep-1984 00:39:41
14-Sep-1984 12:50:22
                                                                                                                         VAX-11 Bliss-32 V4.0-742
ENML.SRCJNMLV2COMP.B32;1
                                                                                                                                                                          Page
                     Wildcard search key two, oper2 = eql
   NAM
SER
                                                                     Name
                                                                     Service
                                            LCT
BLO
COS
TRI
                                                                     Counter timer
                                                                     Block size
                                                                     Cost
                                                                     Tributary
                                   NFB to get the V2 line parameters that are line parameters in V3.
                                SNFBDSC (NML$Q_LINE_NFBDSC, SHOW, , PLI
,NAM, | Search key one = circuit name, oper1 = eql
| Wildcard search key two, oper2 = eql
| Controller
                                            . DUP
                                                                     Duplex
                                            PRO
STI
RTT
                                                                     Protocol (V2 Line type)
                                                                    Service timer
Retransmit timer (V2 Normal timer)
                                            BFN);
                                                                    Receive buffers
                                        Circuit summary
                                MACRO
                                     SUMMARY PARAMS =
PCCI, STA,
PCCI, SUB,
PCCI, LOO,
                                                            NML$SHOPARAM
                                                                                                     State
                                                            NML$SHO VZLINE_SUBSTA
                                                                                                      Substate
                                            PCCI.
                                                                                                     Loopback name
                                            PCCI. ADJ. NML$SHONODEID
                                                                                                     Adjacent node
                                EXT_LIST (SUMMARY_PARAMS);
PRM_LIST (LIN, V25UM, SUMMARY_PARAMS);
                              いっというというという
                                   Data for SHOW LINE SUMMARY and STATUS.
                                MACRO
                                     Circuit status
STATUS PARAMS =
PCCI, STA,
PCCI, SUB,
                                                            NML$SHOPARAM
                                                                                                     State
                                                           NML$SHO_VZLINE_SUBSTA
NML$SHOPARAM
                                                                                                     Substate
                                            .PCCI. LOO.
                                                                                                     Loopback name
                                                     ADJ.
                                                            NML$SHONODEID
                                                                                                     Adjacent node
                                             PCCI. BLO. NML$SHOPARAM
                                                                                                     Block size
                                 PRM_LIST (LIN, V2STA, STATUS_PARAMS);
   692
```

```
NML$V2COMP
V04-000
                          Process NICE V2.0 requests NML_V2_SHOWLINE Show V2 L..e parameters
                                                                                                        16-Sep-1984 00:39:41
14-Sep-1984 12:50:22
                                                                                                                                               VAX-11 Bliss-32 V4.0-742
LNML.SRCJNMLV2COMP.B32;1
                                                                                                                                                                                                                  (9)
                                                                                                                                                                                                          Page
    694
695
696
697
698
699
700
701
702
703
707
708
710
711
                          0687
0688
0689
0690
0692
0693
0695
0696
                                             DATDSC : DESCRIPTOR.
                                                                                                           QIO data descriptor
                                                                                                           Pointer into P4 buffer
                                             DATPTR,
                                             TABDSC : REF DESCRIPTOR,
DUMDSC : REF DESCRIPTOR,
MSGDSC : DESCRIPTOR,
NFBDSC : REF DESCRIPTOR,
                                                                                                           NICE parameter formatting descriptor
                                                                                                           Dummy descriptor
                                                                                                           Output message descriptor
                                                                                                           NFB descriptor
                                             P2DSC : DESCRIPTOR.
                                                                                                           P2 parameter descriptor
                                             PERIOD_PTR,
                                             LINE_LEN;
                                                                                                           Length of circuit's corresponding
                                                                                                                     Line ID.
                          0698
                          0699
                                      SELECTU . INF OF
                          0701
                          0702
0703
                                              [NML$C_STATUS, NML$C_SUMMARY, NML$C_COUNTERS]:
                          0704
                                                       For status, summary, and counters the show parameters for V3 circuits are the ones required for show parameters for V2 lines.
    712
713
                          0705
                          0706
                                                       Formatting the SUBSTATE parameter, however, is different.
    714
715
716
717
                          0707
                          0708
                                                    BEGIN
                          0709
                         0710
0711
0712
0713
0714
0715
0716
0717
0718
0719
0721
0723
0723
0724
0725
0726
0727
0728
0729
0731
0735
0736
0737
                                                       Get canned NFB to get parameters from NETACP and build P2 buffer to get parameters from specified circuit.
    718
719
    720
721
723
724
725
726
727
730
731
732
733
735
736
737
741
743
                                                    NML$GETINFTABS (NML$C_CIRCUIT, .INF, NFBDSC, TABDSC, 0);
NML$BLDP2 (.LEN, .ADR, -1, 0, NML$Q_P2BFDSC, P2DSC);
                                                    END:
                                             ENML$C_CHARACTERISTICS3:
                                                       Some V2 line characteristics are V3 line parameters and some
                                                       are V3 circuit parameters. Issue QIOs to both volatile data
                                                       databases to get them.
                                                    BEGIN
                                                       If the circuit is multipoint, convert the circuit ID to a line ID. (Circuit ID DMP-0.2 = line ID DMP-0).
                                                    PERIOD PTR = CH$FIND CH (.LEN, .ADR, %C'.');

IF .PERIOD PTR NEQ O THEN

LINE_LEN = .PERIOD_PTR - .ADR
                                                    LINE_LEN = .LEN;
NML$BLDP2 (.LINE_LEN, .ADR, -1, 0, NML$Q_P2BFDSC, P2DSC);
                                                       Use canned NFB to get line parameters from NETACP.
    744
                                                    IF NOT NMLSGETDATA (NMLSQ_LINE_NFBDSC, P2DSC, NMLSGQ_LINDATDSC)
                          0738
0739
    746
747
748
                                                    THEN
                         0740
0741
0742
0743
                                                          BEGIN
                                                          NML$BLD_REPLY (NML$AB_MSGBLOCK, MSGDSC [DSC$W_LENGTH]);
NML$SEND (NML$AB_SNDBUFFER, .MSGDSC [DSC$W_LENGTH]);
    750
                                                          RETURN
```

```
NML$V2COMP
V04-000
                            Process NICE V2.0 requests
NML_V2_SHOWLINE Show V2 line parameters
                                                                                                                  16-Sep-1984 00:39:41
14-Sep-1984 12:50:22
                                                                                                                                                            VAX-11 Bliss-32 V4.0-742
[NML.SRC]NMLV2COMP.B32;1
                                                                                                                                                                                                                                      (9)
     END:
                            0745
0745
0746
0747
0751
0755
0755
0756
0765
0765
0765
                                                            Set up pointer to buffer with line characteristics.
                                                                                                                                                         The buffer
                                                            with the circuit characteristics is handled by DATPTR.
                                                        NML$GL_LINDATPTR = .NML$GQ_LINDATDSC [DSC$A_POINTER];
NFBDSC = NML$Q_CIRC_NFBDSC;
TABDSC = NML$Q_LINVZCHA_TABDSC;
NML$BLDP2 (.LEN, .ADR, -1, 0, NML$Q_P2BFDSC, P2DSC);
                                                         END:
                                                  TES:
                                              Use canned NFB to get circuit parameters from NETACP.
                                           IF NML$GETDATA (.NFBDSC, P2DSC, NML$GQ_QIOBFDSC, DATDSC)
                                          THEN
                                                  TABDSC = (SELECTONEU .INF OF
                                                         [NMLSC_STATUS]: NMLSQ_LINV2STA_TABDSC;
[NMLSC_SUMMARY]: NMLSQ_LINV2SUM_TABDSC;
[OTHERDISE]: .TABDSC;
                            0766
0767
0768
0769
0770
0771
0772
0773
0774
0775
0776
0777
                                                 DATPIR = .DATDSC [DSC$A_POINTER];
                                                     Format the line and circuit parameters into a single NICE response message. NML$Q_LINV2CHA_TABDSC causes the formatting routine to switch between the line and circuit buffer when
                                                     necessary.
                                                  NML$PROCESSDATA (.ENTITY, .TABDSC, DATDSC, DATPTR, MSGDSC);
                                          ELSE
                                                  BEGIN
                                                 NML$BLD_REPLY (NML$AB_MSGBLOCK, MSGDSC [DSC$W_LENGTH]);
MSGDSC [DSC$A_POINTER] = NML$AB_SNDBUFFER;
                            0780
                            0781
                                              Send NICE response message to NCP.
                                          NML$SEND (.MSGDSC [DSC$A_POINTER], .MSGDSC [DSC$W_LENGTH]);
END; ! of NML_V2_SHOWLINE
                                                                                                                                   .PSECT $PLIT$, NOWRT, NOEXE, 2
                                                                                        0000G 00018 P.AAE:
00000000G 0001A
0000G 0001E
0000000G 00020
0000G 00024
0000000G 00026
0000G 0002A
0000000G 0002C
0000G 00030
0000000G 00032
                                                                                                                                   . WORD
                                                                                                                                                 PSTSK_PCCI_SER
                                                                                                                                    .ADDRESS NMLSSHOPARAM
                                                                                                                                    WORD PSTSK PCC1 LCT ADDRESS NMLSSHOPARAM
                                                                                                                                    .WORD PSYSK PCCI BLO .ADDRESS NML$SHOPARAM
                                                                                                                                    WORD PSTSK PCCI COS
ADDRESS NML$SHOPARAM
WORD PSTSK PCLI CON
```

. ADDRESS NMLSSHOLINBYTE

NML\$V2COMP	## Process NICE V2.0 requests 16-Sep-1984 00:39:41 VAX-11 Bliss-32 V4.0-742 NML_V2_SHOWLINE Show V2 line parameters 14-Sep-1984 12:50:22 [NML.SRCJNMLV2COMP.B32;1	Page 25 (9)
	04010015 00134 .LONG 67174421 04010017 00138 .LONG 67174423 04010018 0013C .LONG 67174424 04010024 00140 .LONG 67174436 00000000 00144 .LONG 0 .LONG 0	6 6 8 8 9 0 6
	22 0014C ; NFB	
	00 0014D 05 0014E 06 0014F 07 0014F 08	
	NML\$Q_LINV2CHA_TABDSC= P.AAD U.2= P.AAF U.4= P.AAG NML\$Q_LINV2SUM_TABDSC= P.AAH NML\$Q_LINV2STA_TABDSC= P.AAJ	
	.EXTRN PST\$K PCCI_SER, PST\$K PCCI_LCT .EXTRN PST\$K PCCI_BLO, PST\$K PCCI_COS .EXTRN PST\$K PCLI_CON, PST\$K PCLI_DUP .EXTRN PST\$K PCLI_PRO, PST\$K PCLI_STI .EXTRN PST\$K PCLI_RTT, PST\$K PCCI_TRI .EXTRN PST\$K PCLI_BF\$, PST\$K PCCI_STA .EXTRN PST\$K PCCI_SUB, PST\$K PCCI_LOO .EXTRN PST\$K PCCI_ADJ	
	.PSECT \$CODE\$,NOWRT,2	- 0670
	01FC 00000 NML_v2_SHOWLINE: .WORD	0579
	52 08 AC DO 0002F MOVL INF. R2 01 52 D1 00033 CMPL R2. #1 05 18 00036 BLEQU 1\$ 03 52 D1 00038 CMPL R2. #3	0700 0702

Process NML_V2_	NICE V2.0 requ SHOWLINE Show	ests V2 L	ine paramet	ers	1	16 5-Sep- 4-Sep-	1984 00:39: 1984 12:50:	41	VAX-11 Bliss-32 V4.0-742 [NML.SRC]NMLV2COMP.B32;1	Page 26 (9)
			04 0C	24 D4 7E PF AE2 PF AE2 PF AE3 PF	00045	18:	BNEQ CLRL PUSHAB PUSHL PUSHL CALLS PUSHAB PUSHL CLRL MNEGL	2\$ -(SP) TABDS( NFBDS( R2		0713
	000000006	00	oc	09 DE 05 FE AE 9F 53 DE	00049 00050 00053		CALLS PUSHAB PUSHL	P2DSC R3	ML\$GETINFTABS	0714
		7E 7E 64 02	oc	7E D4 01 CE AC 70 06 FE 52 D1	00055 00057 0005A 0005E 00061	28:	MNEGL MOVQ CALLS	LEN.	(SP) -(SP) ML\$BLDP2 2	0717
10	вс ос	AC		79 12 2E 3/ 02 12	00064 00066 00060		FOCC	13	LEN, BADR	0728
				51 D4	0006E 00070	38:	CLRL TSTL	PERIO	D_PTR	0729
	50	51	10	07 13	00072		SUBL 3	ADR,	PERIOD_PTR, LINE_LEN	0730
		50	0C	AC DO AE 91	0007B 0007F 00082	4\$: 5\$:	MOVL	5\$ LEN, P2DSC R3	LINE_LEN	0732 0733
		7E	10	7E D4 01 CE AC D1 50 D1	00084 00086 00089 00080		MNE GL PUSHL	ADR	(SP) LEN ML\$BLDP2	
		64	000000006 000000006 14 64	AC DE 50 DE 600 91 AE 91 A3 91	0007B 0007F 00082 00084 00086 00089 0008E 00091 00097 00090 000A0 000A3		PUSHAB	NML \$GI NML \$GI P2DSC	Q_LINDATDSC Q_LINBFDSC	0737
		65	14	04 FE 50 E8 AE 91 56 DE 02 FE AE 30 58 DE	000A3 000A6 000A9		CALLS BLBS PUSHAB	RO, 65 MSGDS	MLSGETDATA S C	0741
		67 7E	14	02 FE AE 30 58 DI	000AE 000B1 000B5		MOVZWL	R6 #2 NI MSGDS R8 13\$	ML\$BLD_REPLY C, -(SP)	0742
	00000000G 04	00 ( AE 6E	0000000006 5 C 5 4 0 C	58 DI 87 DI 00 DI A3 9I A5 DI 71	000A9 000AE 000B1 000B5 000B7 000BA 000CA 000CA 000CA 000CA 000D1 000D5 000D6	6\$:	MOVL MOVAB MOVAB PUSHAB PUSHL	NMLSQ NMLSQ P2DSC R3	Q_LINDATDSC+4, NML\$GL_LINDATPT _CIRC_NFBDSC, NFBDSC _LINVZCHA_TABDSC, TABDSC	0749 0750 0751 0752
		7E 7E 64	0C 1C	7E D4 01 C1 AC 71 06 F1 AE 91 00 91 AE 91	00005 00005 00000 00000	78:	MNEGL MOVQ CALLS PUSHAB	-(SP) #1 LEN, #6. N DATDS	(SP) -(SP) ML\$BLDP2 C Q_QIOBFDSC	0758
		65 3A	000000000 14 10	00 91 AE 91 AE DI 04 FI 50 E	000E2 000E8 000E8 000E8		PUSHL CALLS	NEBDS	C ML\$GETDATA	

NML\$V2COMP

WML\$V2COMP V04-000	Process NICE V2.0 requ NML_V2_SHOWLINE Show	ests V2 line	parame	ters	,	1	S-Sep-	984 00:39 984 12:50	9:41 VAX-11 Bliss-32 V4.0-742 0:22 [NML.SRC]NMLV2COMP.B32;1	Page 27 (9)
		01		53	01	000F4 000F7		CMPL	R2, #1	: 0763
		50	OOAC	ζž	12 9E	000F9		MOVAB	R2, #1 8\$ NML\$Q_LINV2STA_TABDSC, R0 10\$ R2	•
				25	05	000FE 00100	85:	TSTL	R2	0764
		50	0084	C3	9E	00102 00104 00109		CMPL BNEQ MOVAB BRB TSTL BNEQ MOVAB BRB	NWTAR TINASONW LARDOC' KO	•
		50		05 6E	00	00109 0010B 0010E	95: 105:	MOVL MOVL	TABDSC, RO	076
	80	50 6E AE	20	AE	D0 D0 9F	00111	105:	MOVL	TABDSC, RO RO, TABDSC DATDSC+4, DATPTR MSGDSC DATPTR	076 076 076 077
			00	AE	9F	00116 00119 0011C		MOVL PUSHAB PUSHAB	MSGDSC DATPTR	; 0774
			20 14 0C 24 0C 04	AE AE AC O	9F DD	0011C		PUSHAB	DATDSC TABDSC ENTITY	0
	00000006	00	04	AC 05	DD FB	00122		PUSHL PUSHL CALLS	ENTITY #5. NML\$PROCESSDATA 12\$	:
			14	OC AE 56	11 9F	00125 0012C 0012E	115:	BRB	12\$ MSGDSC	0758 0778
		67			DD FB	00131		DIICHI	MSGDSC R6 #2. NML\$BLD REPLY	•
	18	AE 7E	14	02 68 AE AE 02	9E 3C	00136 0013A	12\$:	MOVAB	M2. NML\$BLD_REPLY NML\$AB_SNDBUFFER, MSGDSC+4 MSGDSC, -(SP) MSGDSC+4 M2. NML\$SEND	0779
	00000000	00	16	AE	DD FB	0013E 00141	13\$:	PUSHL	MSGDSC+4	
	0.000000			O.L.	04	00148	1341	RET		078

; Routine Size: 329 bytes, Routine Base: \$CODE\$ + 0235

```
E 16
16-Sep-1984 00:39:41
14-Sep-1984 12:50:22
NML$V2COMP
V04-000
                             Process NICE V2.0 requests
NML$SHO_V2LINE_SUBSTA Show V2 Line substate
                                                                                                                                                                   VAX-11 Bliss-32 V4.0-742 [NML.SRC]NMLV2COMP.832;1
                                            XSBTTL 'NML$SHO_V2LINE_SUBSTA Show V2 Line substate'
GLOBAL ROUTINE NML$SHO_V2LINE_SUBSTA (SEM_LIST, BUFDSC, MSGSIZE,
DATDSC, DATPTR)=
     795
796
797
798
801
808
808
808
808
808
811
816
817
                             0790
0791
0792
0793
0794
0795
0796
0797
0798
0799
                                               FUNCTIONAL DESCRIPTION:
                                                           This routine is called when processing a SHOW LINE command from a remote NCP which is running Network Management V2.0. It gets the circuit substate from the QIO buffer, and puts it into the NICE
                                                           response message.
                                                FORMAL PARAMETERS:
                                                           SEM LIST
BUFDSC
                                                                                         Parameter semantic table entry address. Output message buffer descriptor address.
                             0800
0801
0802
0803
0804
0805
0806
0807
0808
0809
0811
0812
0813
                                                                                         Address of current output message size.
                                                           MSGSIZE
                                                                                         Q10 buffer descriptor address.
                                                           DATDSC
                                                           DATPTR
                                                                                         Curre : pointer into QIO data buffer.
                                                ROUTINE VALUE:
                                                COMPLETION CODES:
                                                           Always returns success (NML$_STS_SUC).
                                            1--
     818
819
                                            BEGIN
     8201234568278828333345683398339
                             0814
0815
0816
0817
0818
0821
0821
0823
0824
0823
0824
0825
0827
0828
0829
0833
0833
0833
                                                    SEM_LIST : REF BBLOCK:
                                             IF .(..DATPTR)<0.32> NEQU -1
                                            THEN
                                                   BEGIN
                                                       Change the 'synchronizing' substate to 'on-starting' so the V2 NCP will print out something intelligible.
                                                    if .(..DATPTR)<0,32> EQL NMASC_LINSS_SYN THEN
    ..DATPTR = NMASC_LINSS_STA;
                                                       Add the line substate to the NICE message.
                                                    NML$ADDMSGPRM (
                                                                                         .BUFDSC.
                                                                                         .MSGSIZÉ,
.SEM_LIST [PST$W_DATAID],
.SEM_LIST [PST$B_DATATYPÉ],
     840
841
842
843
844
                                                                                         ..DATPTR);
                             0836
0837
                                            .DATPTR = .DATPTR + 4;
RETURN NML$_STS_SUC
                                            END:
                                                                                                        ! End of NML$SHO_V2LINE_SUBSTA
```

NML \$V2COMP V04-000	Process NICE V2.0 requ NML\$SHO_V2LINE_SUBSTA	ests Show V	/2 Line	subst	ate	F 16 16-Sep- 14-Sep-	1984 00:39 1984 12:50	2:41 VAX-11 Bliss-32 V4.0-742 CNML.SRCJNMLV2COMP.B32;1	Page 29 (10)
	FFFFFFF	52 8F 0A	14 00 00 00	000 AC B23 B33 B33 B43	04 000 00 000 01 000 13 000 01 000 01 000	00 02 06 0E 10 14 16	ENTRY MOVL CMPL BEQL CMPL BNEQ CLRL	NML\$SHO_V2LINE_SUBSTA, Save R2 DATPIR, R2 a0(R2), #-1 2\$ a0(R2), #10 1\$ a0(R2)	0787 0816 0823 0824
	0000000G	50 7E 7E 7E 00 62 50	04 03 08	01 AC A0 60 AC 06 01	DD 000 DO 000 9A 000 3C 000 7D 000 FB 000 CO 000 DO 000 04 000	18 10 21 25 28 20 33 28:	MOVL CMPL BEQL CMPL BNEQ CLRL PUSHL MOVZBL MOVZBL MOVZWL MOVQ CALLS ADDL2 MOVL RET	(R2) #1 SEM_LIST, R0 3(R0), -(SP) (R0), -(SP) BUFDSC, -(SP) #6, NML\$ADDMSGPRM #4, (R2) #1, R0	0824 0833 0828 0831 0830 0828 0836 0837 0838

; Routine Size: 58 bytes, Routine Base: \$CODE\$ + 037E

```
Process NICE V2.0 requests 16-Sep-1984 00:39:41 NML$V2_SHOW_LINKS Dispatch to show volatile LI 14-Sep-1984 12:50:22
NML$V2COMP
                                                                                                                                                VAX-11 Bliss-32 V4.0-742
ENML.SRCJNMLV2COMP.B32;1
     848
849
850
                          0839
0840
                                       %SBTTL 'NML$V2_SHOW_LINKS Dispatch to show volatile LINK parameters' ROUTINE NML$V2_SHOW_LINKS (INDEX): NOVALUE =
                          0841
0842
0843
0844
0845
    FUNCTIONAL DESCRIPTION:
                                                    This routine shows a summary of V2 LINK parameters from the volatile
                          data base.
                                          FORMAL PARAMETERS:
                                                    INDEX
                                                                              Entity information table index code.
                                           IMPLICIT INPUTS:
                                                    NML$GB_ENTITY_FORMAT contains the entity format code.
                                                   If the NICE command is a request to SHOW KNOWN LINKS WITH NODE x: NML$GW_QUALIFIER_CPT contains the address of the Change Parameter Table entry for the node name or address.

NML$GB_QUALIFIER_FORMAT contains the node id length.

NML$AB_QUALIFIER_ID contains the node id.
                                       BEGIN
                                             NML$GB_ENTITY_FORMAT : BYTE SIGNED:
                          0870
0871
                                          All functions specifying the LINK entity must be system-specific.
    880
881
883
884
885
886
887
888
889
891
892
893
                          0872
0873
                                       SELECTONEU .NML$GB_ENTITY_FORMAT OF
                                             SET [NMASC_ENT_KNO]:
                          0874
0875
0876
0877
0878
0879
                                                                                              Known, or known with node.
                                                   NME_V2_DISPATCH (NML$C_LINKS,
NML_V2_SHOW_LINKS,
.NME$GE_QUALIFIER_PST,
.NML$GB_QUALIFIER_FORMAT,
NML$AB_QUALIFIER_ID);
                                                                                                                     ! Routine address
                          0880
                                             TES:
                                       NMLSERROR_2 (NMASC_STS_IDE,
NMASC_SENT_LNK);
                                                                                                        ! Identification error
    894
895
                                      END:
                                                                                            ! End of NML$V2_SHOW_LINKS
```

0000 00000 NML\$V2\_SHOW\_LINKS:

FF 8F 50 00000000 00 98 00000

.WORD Save nothing CVTBL NML\$GB\_ENTITY\_FORMAT, RO CMPB RO, #-T 0840 0872 0874

NML\$V2COMP	Process NICE V2.0 regu NML\$V2_SHOW_LINKS Dis	ests patch to show	volatile LI	H 16 16-Sep-1984 00:39 14-Sep-1984 12:50	:41 VAX-11 Bliss-32 V4.0-742 :22 [NML.SRC]NMLV2COMP.B32;1	Page 31
	FD61 00000000G	7E 00000000G 00000000G 00000000V CF 7E 00	20 12 000 00 9F 000 00 9A 000 00 DD 000 00 9F 000 18 DD 000 05 FB 000 07 DD 000 09 CE 000 02 FB 000	OD BNEQ PUSHAB 15 MOVZBL 1C PUSHL 22 PUSHAB 28 PUSHL CALLS 21 \$: PUSHL 31 MNEGL CALLS 38 RET	1\$ NML\$AB_QUALIFIER_ID NML\$GB_QUALIFIER_FORMAT, -(SP) NML\$GL_QUALIFIER_PST NML_V2_SHOW_LINKS #24 #5, NML_V2_DISPATCH #7 #9, -(SP) #2, NML\$ERROR_2	0875 0878 0877 0875

; Routine Size: 60 bytes, Routine Base: \$CODE\$ + 03B8

; 896 0887 1

P2 buffer descriptor. Last link's partner node address. Count of link entities returned by NETACP. Descriptor for node id for NICE response message. Return P4 buffer descriptor. P4 buffer pointer. Buffer for accumulating LADs in NICE message format.

Descriptor for full size of LAD\_BUF.

Descriptor for data in LAD\_BUF. Longword for length of data in LAD\_BUF (NML\$SHOWPRMLIST needs a longword - I'm going to murder Davidson.)

VAX-11 Bliss-32 V4.0-742 [NML.SRC]NMLV2COMP.B32;1

%SBTTL 'NML\_V2\_SHOW\_LINKS Show V2 volatile links parameters'
ROUTINE NML\_V2\_SHOW\_LINKS (ENTITY, QUAL\_PST, QUAL\_LEN, QUAL\_ADR) : NOVALUE =

This routine is called to perform SHOW LINK commands from nodes running V2 Network Management. The parameters returned are different from those returned to a V2 node.

V2 nodes only accept the SHOW KNOWN LINKS and the SHOW KNOWN LINKS WITH NODE <node-id> commands. The links are returned by node. I.E. One response message is sent to NCP for each remote node which there are current logical links to. Each response message contains the node ID, followed by a list of link numbers and their PIDs. For a V3 node, NML returns one link per response message along with its associated parameters.

For SHOW KNOWN LINKS command, build QIO buffers to get NETACP to return information about all known links on this node. For SHOW KNOWN LINKS WITH NODE <nodeid> command, build QIO buffers to return information about all links to the specified

The QIO is repeated until all links of the specified type have been returned by the ACP. As each link's information is received, it is formatted into a NICE message and returned to NCP.

Entity type code (always NML\$C\_LINKS)
Address of node qualifier's entry in the Parameter
Semantic Table (PST).

Length of node qualifier ID string. Address of node qualifier ID string.

LAD BUF DSC : DESCRIPTOR, LAD DATA DSC : DESCRIPTOR, LAD LEN,

```
Process NICE V2.0 requests 16-Sep-1984 00:39:41
NML_V2_SHOW_LINKS Show V2 volatile links param 14-Sep-1984 12:50:22
NML$V2COMP
V04-000
                                                                                                                                   VAX-11 Bliss-32 V4.0-742
ENML.SRCJNMLV2COMP.B32;1
                       0945
0946
0947
0948
0949
0951
0953
0953
0957
0958
0963
0964
0966
0967
0968
                                                MSGSIZE,
STATUS;
    960
961
962
963
964
965
966
968
969
970
                                      For formatting the link and its rID into the NICE response message
                                   MACRO
                                         LINK_PARAMS = PCLK, LAD,
                                                                                   NML$SHOLINKS %:
                                    EXT_LIST (LINK_PARAMS);
PRM_LIST (LNK, V2SHO, LINK_PARAMS);
                                      This NFB is used get the link information for all the links to
                                      a given node.
    971
972
973
974
975
976
977
                                   ,NFB$C_WILDCARD,
                                                                                                  Search key two = wildcard, oper2 = eql
                                            Link parameters for NETACP to return in P4 buffer.
    978
979
                                                                                                  Partner node address
                                                PNN
                                                                                                  Partner node name
    980
981
982
983
984
                        0970
                                                ,LLN
                                                                                                  Logical link number
                       0971
                                               PID
S:
                                                                                                  Process ID
                        0972
0973
                       0974
    985
                                          NML_Q_V2_SHOLNK : DESCRIPTOR;
                       0976
0977
    986
987
                                      Modify canned NFB descriptor to do the show links requested by the NICE
                                      command. Use special NFBs that only get the information required for a V2 SHOW LINK: node name and address, link number, and PID.
                        0978
     988
     989
                        0979
     990
                        0980
                                   NML$BLDSHOWBUFS (.ENTITY, NMA$C ENT KNO, O, .NML Q V2 SHOLNK [DSC$A_POINTER], NML$Q_P2BFDSC, P2DSC,
    991
                        0981
0982
0983
0984
0985
0986
0987
0988
0989
0991
0993
0994
0995
0996
    992
993
                                                                                                                          Address of NFB to fill in.
                                                                                                                          Buffer for P2.
    994
995
996
997
                                                                                                                         Return P2 descriptor.
Node PST (if present)
Node ID length.
                                                             .QUAL_PST.
.QUAL_LEN.
.QUAL_ADR);
                                                                                                                         Node ID address.
    998
                                      Set up for loop to get link info from NETACP.
   1000
                                   LAD_BUF_DSC [DSC$W_LENGTH] = NML$K_SNDBFLEN;

LAD_BUF_DSC [DSC$A_POINTER] = LAD_BUF;

LAD_DATA_DSC [DSC$A_POINTER] = LAD_BUF;

LAST_PNA = -1;

STATUS = 1;
   1001
1002
1003
   1004
   1006
                                    LAD_LEN = 0:
   1008
                        0998
                                      NETACP will return all links to a given node consecutively.
                                      This routine takes advantage of this fact.
   1010
                        1000
   1011
                        1001
                                    WHILE .STATUS DO
```

DATPTR):

Build the last NICE response message. If there was an error, but there is

END:

END:

END:

とととは

1064 1065

1066

1068

```
NML$V2COMP
V04-000
                             Process NICE V2.0 requests
NML_V2_SHOW_LINKS Show V2 volatile links param 14-Sep-1984 12:50:22
                                                                                                                                                                 VAX-11 Bliss-32 V4.0-742
ENML.SRCJNMLV2COMP.832;1
                                               a node id to add, do so. If the last completion status was end-of-file (NML$ STS (MP) then the end of the link data base was successfully reached, so add whatever links are left in the LAD buffer.
  1069
1070
1071
1072
1073
1074
1075
1076
1077
                             1060
1061
1062
1063
1064
1065
1066
1067
1070
1071
1073
1074
                                           IF .LAD LEN GTR O THEN BEGIN
                                                  NML$A3_MSGBLOCK [MSB$L_FLAGS] = .NML$AB_MSGBLOCK [MSB$L_FLAGS] OR MSB$M_ENTD_FLD;
NML$AB_MSGBLOCK [MSB$A_ENTITY] = STRDSC;
IF .STATUS EQL NML$_STS_CMP THEN
   1079
1080
                                                          BEGIN
                                                          NML$AB_MSGBLOCK [MSB$L_fLAGS] = MSB$M_ENTD_fLD OR MSB$M_DATA_FLD;
NML$AB_MSGBLOCK [MSB$B_CODE] = NMA$C_STS_SUC;
LAD_DATA_DSC [DSC$W_LERGTH] = .LAD_LEN;
NML$AB_MSGBLOCK [MSB$A_DATA] = LAD_DATA_DSC;
   1081
1082
1083
   1084
                                                          END:
   1085
                                                   END:
   1086
1087
                             1076
                                               Put the pieces of the NICE response message together and send it
                             1078
   1088
                                               to NCP.
   1089
   1090
1091
1092
1093
                             1080
                                           NML$BLD_REPLY (NML$AB MSGBLOCK, MSGSIZE):
                                           NMLSSEND (NMLSAB SNDBOFFER, .MSGSIZE);
                             1081
                             1082
                                                                         ! of
                                                                                       NML_V2_SHOW_LINKS
                                                                                                                                       .PSECT $PLIT$, NOWRT, NOEXE, 2
                                                                                                                                      .WORD PST$K PCLK LAD
.ADDRESS NML$SHOLINKS
                                                                                                   0000G 000BC P.AAM:
                                                                                           0000000V
                                                                                                             OOOBE
                                                                                                             000C2
000C4 P.AAL:
000C8
                                                                                                                                       .BLKB
                                                                                           00000001
                                                                                                                                       .LONG
                                                                                          00000000°
00000000°
                                                                                                                                       ADDRESS P.AAM
                                                                                                             OOOCC P.AAN:
                                                                                                                                       . LONG
                                                                                                             00000
                                                                                                                                       .ADDRESS U.5
                                                                                                                                       .PSECT SOWNS, NOEXE, 2
                                                                                                             0017C : NFB
                                                                                                                                       BYTE
BYTE
BYTE
                                                                                                             0017D
                                                                                                             0017E
                                                                                                             00180
                                                                                           00000001
                                                                                                                                       .LONG
                                                                                                             00184
00188
00189
0018A
0018C
00190
00194
                                                                                           00000001
                                                                                                                                       LONG BYTE
                                                                                                                                       BYTE
                                                                                          0000
08010014
08020043
08010012
08010015
00000000
                                                                                                                                       . WORD
                                                                                                                                       .LONG
                                                                                                                                        .LONG
                                                                                                                                        .LONG
                                                                                                                                       . LONG
                                                                                                                                       . LONG
```

.BLKB

NML	\$V2	COM	P
V04	-00	00	

M 16
Process NICE V2.0 requests 16-Sep-1984 00:39:41 VAX-11 Bliss-32 V4.0-742 NML\_V2\_SHOW\_LINKS Show V2 volatile links param 14-Sep-1984 12:50:22 [NML.SRC]NMLV2COMP.B32;1

NML\$Q\_LNKV2SHO\_TABDSC=
P.AAL
P.AAN
EXTRN PST\$K\_PCLK\_LAD

.PSECT \$CODE\$, NOWRT, 2

			0	7FC	00000	NML_V2	SHOW LIN	(\$:	
	559 559 556 556 57E	00000000G 00000000G 00000000 00000000 FDCC 0C 08 FB	00 00 00 00 00 CE AC AD	9EE9EE9009F	00002 00009 00010 00017 0001E 00025 0002A 0002E		MOVAB MOVAB MOVAB MOVAB MOVAB MOVQ PUSHL PUSHAB	Save R2,R3,R4,R5,R6,R7,R8,R9,R10 NML\$SEND, R10 NML\$AB SNDBUFFER, R9 NML\$BLB REPLY, R8 NML\$Q PZBFDSC, R7 NML\$AB MSGBLOCK, R6 -564(SP), SP QUAL_LEN, -(SP) QUAL_PST P2DSC R7 NML Q V2 SHOLNK+4	0889 0986 0985 0981
	7E	0008	C7 7E 01 AC	00 04 CE 00	00034 00036 0003A 0003C 0003F		CLRL	-(SP) #1, -(SP)	0982 0981
000000006 14 18 10	OO AE AE 55	0200 1C 1C	09 8F AE 01 01	FB 80 9E 00	0003F 00042 00049 0004F 00054 00059 0005C		CALLS MOVW MOVAB MOVAB MNEGL MOVL	#9, NML\$BLDSHOWBUFS #512, LAD BUF DSC LAD BUF, CAD BUF DSC+4 LAD BUF, LAD DATA DSC+4 #1, LAST PNA #1, STATUS LAD LEN STATUS, 2\$ DATDSC NML\$GQ_QIOBFDSC P2DSC	0991 0992 0993 0994 0995
000000006	1A 00	000000006 F8 00C4	AE 53 AD 00 AD C7 04	00 04 9F 9F 9F 9F FB	00068 0006E 00071		MOVL CLRL BLBC PUSHAB PUSHAB PUSHAB PUSHAB CALLS	STATUS, 2\$ DATDSC NML\$GQ_QIOBFDSC P2DSC NML_Q_V2_SHOLNK #4NML\$GETDATA	0996 1001 1003
	00 53 77 6E 54	ECFC	50 53 AD BD 54	00 E9 D0 D0 D7	00082		PUSHAB CALLS MOVL BLBC MOVL MOVL DECL BLSS MOVL	NML Q V2 SHOLNK #4, NML SGETDATA R0, STATUS STATUS, 7\$ DATDSC+4, DATPTR aP2DSC+4, LINK_CNT LINK_CNT	1004 1006 1007 1008
	52 62	04	04E532E90	00 01 13 05 13	0008E 00091 00094 00096		BEQL	DATPTR, R2 LAST_PNA, (R2) 5\$ LAD_LEN	1013
04 14 0C 18	66 A6 AE A6	F 0 04 0C 08	301 AD AE AE AE AE 502 AE 59	90 9E 80 9E 9F	0009B 0009E 000A2 000A7 000AC 000B1		MOVE MOVAB MOVAB MOVAB PUSHAB	#48, NML\$AB MSGBLOCK #1, NML\$AB MSGBLOCK+4 STRDSC, NME\$AB MSGBLOCK+20 LAD LEN, LAD DATA DSC LAD DATA DSC, NML\$AB MSGBLOCK+24 MSG\$IZE R6 #2, NML\$BLD_REPLY	1017 1019 1020 1021 1022 1023
	68	08	56 02 AE 59	PD FB DD DD	00084 00086 00089 0008C		PUSHL CALLS PUSHL PUSHL	R6 #2, NML\$BLD_REPLY MSGSIZE R9	1024

Process NICE V2.0 requ NML_V2_SHOW_LINKS Sho	6A					•			Page 3
		04	AE	FB 7C	000BE		CALLS	LAD LEN	1029
	55	F0 04	OAE A A A A A A A A A A A A A A A A A A	9F 9F	000C4 000C7 000CA 000CD 000CF 000D6	48:	MOYL PUSHAB PUSHAB	#2, NML\$SEND LAD_LEN (R2), LAST_PNA STRD\$C DATPTR	1039 1039 1039
000000006	00		03	DD	OOOCF		PUSHL	#3, NML\$GETIDSTRING	
	50 6E	04	A2	3C	DUUDB	58:	BRB	6\$ 4(R2) R0 6(R2) [R0], DATPTR	101
	6E		A240 5E	9E	000DC 000E1	6\$:	PUSHL	6(R2)[R0], DATPTR	1049
		00BC 10 24	AD C7 AE O5	DD 9F 9F 9F	000E1 000E3 000E6 000EA		MOVZWL MOVAB PUSHAB PUSHAB PUSHAB PUSHAB CALLS BRB	DATDSC NML\$Q_LNKV2SHO_TABDSC LAD_LEN LAD_BUF_DSC #5, NML\$SHOWPARLIST	
00000000G	00	64	05	FB	000F0		CALLS	#5, NML \$SHOWPARLIST	
		04		05	000F7 000F9	7\$:	TSTL	3\$ LAD_LEN	; 100 ; 106
FFFFFFF0	66 A6 8F	FO	AE 22 10 AD 53	88 9E 01	000FC 000FE 00101 00106 0010D 0010F 00112		TSTL BLEQ BISB2 MOVAB CMPL	8\$ #16, NML\$AB_MSGBLOCK STRDSC, NML\$AB_MSGBLOCK+20 STATUS, #-16	105 106 106
04	66		30	12	0010F		MOVL	8\$ #48, NML\$AB_MSGBLOCK	107
04 00 18	A6 AE A6	04 00 08	AE AE 56	90 80 9E	00116 0011B 00120		BNEQ MOVB MOVW MOVAB PUSHAB	#48, NML\$AB MSGBLOCK #1, NML\$AB MSGBLOCK+4 LAD LEN, LAD DATA DSC LAD DATA DSC, NML\$AB MSGBLOCK+24 MSGSIZE	1070 1071 1071 1071 1080
		08	AE 56	9F DD	00120	8\$:	PUSHAB	MSGSIZE	1086
	68	08	AE	FB DD	00123 00125 00128 0012B 0012D 00130		PUSHL CALLS PUSHL PUSHL	R6 M2. NML\$BLD_REPLY MSGSIZE	108 108
	6A		59 02	DD FB 04	00128		CALLS RET	R9 #2, NML\$SEND	108

; Routine Size: 305 bytes, Routine Base: \$CODE\$ + 03F4

: 1094 1084 1

```
Process NICE V2.0 requests NMLSSHOLINKS Get logical link parameters
NML$V2COMP
                                                                                                   16-Sep-1984 00:39:41
14-Sep-1984 12:50:22
                                                                                                                                        VAX-11 Bliss-32 V4.0-742 [NML.SRC]NMLV2COMP.B32;1
                                                                                                                                                                                                 Page 38 (13)
V04-000
  1096
                                     **SBTTL 'NML$SHOLINKS Get logical link parameters'
GLOBAL ROUTINE NML$SHOLINKS (SEM_LIST, BUFDSC, MSGSIZE, DATDSC, DATPTR) =
                         1085
1086
1087
1088
1089
1090
1091
1095
1095
1096
1097
1098
  1098
  1099
  1100
                                      FUNCTIONAL DESCRIPTION:
  1101
  1102
                                                 This routine adds a logical link id to the NICE response message.
  1104
                                        FORMAL PARAMETERS:
  1105
                                                                          Parameter semantic table entry address.
Output message buffer descriptor address.
Address of current output message size.
QIO buffer descriptor address.
  1106
                                                 SEM_LIST
BUFDSC
  1107
  1108
                                                 MSGSIZE
  1109
                                                 DATDSC
  1110
                                                 DATPTR
                                                                           Current pointer into QIO data buffer.
  1111
                         1100
  1112
                         1101
                                        IMPLICIT INPUTS:
                         1102
  1114
                                                 Coded multiple link address and process id fields are added to output
                         1104
  1115
  1116
                         1106
1107
  1117
                                        ROUTINE VALUE:
  1118
                                        COMPLETION CODES:
  1119
                         1108
 1120
1121
1122
1123
1124
1126
1127
1128
1129
1130
1131
1135
1136
1137
1140
1141
                         1109
                                                 NML$_STS_SIZ if the response message buffer overflows. NML$_STS_SUC
                         1110
                         1111
                        1112
                                     1--
                        1114
1115
1116
1117
                                    BEGIN
                                    MAP
                                           DATDSC
                                                      : REF DESCRIPTOR,
                        1118
                                           SEM_LIST : REF BLOCK [. BYTE]:
                        1120
1121
1122
1123
1124
1125
1126
1127
                                    LOCAL
                                           PRM BUFFER : BBLOCK [30].
                                           PRMSIZE.
                                           STRPTR.
                                 NUNNANANANA
                                           STATUS:
                                       Now, get the link address and PID and format them for the NICE response message.
                        1128
1129
1130
                                    STRPTR = PRM_BUFFER;
CH$WCHAR_A (2, STRPTR); ! Move link address
STRPTR = CH$MOVE (2, ...DATPTR, .STRPTR);
.DATPTR = ..DATPTR + 4;
 1142
1143
1144
1145
                        1132
1133
1134
1135
  1146
                                     CH$WCHAR_A (%x'20' OR 4, STRPTR); ! Move process id
                                    STRPTR = CHSMOVE (4, .. DATPTR, .STRPTR);
                        1136
1137
1138
1139
  1148
                                     .DATPTR = ..DATPTR + 4;
  1149
1150
1151
                                    PRMSIZE = .STRPTR - PRM_BUFFER;
                        1140
  1152
                                  2 STATUS = NML SADDMSGPRM (.BUFDSC.
```

NML VO4

R

: 1

NML\$V2COMP V04-000	Process NICE V2.0 re	equests ogical link para	D 1 16-Se meters 14-Se	p-1984 00:39:41 p-1984 12:50:22	VAX-11 Bliss-32 V4.0-742 ENML.SRCJNMLV2COMP.B32;1	Page 39
1153 1154 1155 1156 1157 1158 1159 1160	1142 2 1143 2 1144 2 1145 2 1146 2 1147 2 1148 2 RETURN .STAT		GGSIZE, ASC_PCLK_LAD, ASM_PTY_TMU OR 2, AMSIZE, M_BUFFER);			
1160	1149 2 1150 1 END;		! End of NML\$	SHOLINKS		
	50	81 81 81 80 50 51 7E 7E 7E 69 7E 08	0000 00000 20 C2 00002 6E 9E 00005 02 90 00008 BC DO 0000F 04 C0 00012 24 90 00016 BC DO 00019 60 DO 0001D 04 CO 00020 6E 9E 00024 50 C3 00027 8F BB 0002F 8F 9A 00033 AC 7D 00037 06 FB 0003B 04 00042	ENTRY NMLS SUBL2 #32, MOVAB PRM MOVB #2, MOVL aDAT MOVU (RO) ADDL2 #4, MOVL aDAT MOVL (RO) ADDL2 #4, MOVL (RO) ADDL2 #4, MOVAB PRM SUBL3 RO, PUSHR #^M< MOVZBL #194 MOVZBL #105 MOVQ BUFD CALLS #6, RET	SHOLINKS, Save nothing SP BUFFER, STRPTR (STRPTR)+ PTR, RO , (STRPTR)+ adaiptr (STRPTR)+ PTR, RO , (STRPTR)+ BUFFER, RO STRPTR, PRMSIZE RO,SP> , -(SP) , -(SP) NML\$ADDMSGPRM	1130 1131 1132 1133 1135 1136 1137 1139

; Routine Size: 67 bytes, Routine Base: \$CODE\$ + 0525

SRELLMO

NML VO4

```
16-Sep-1984 00:39:41
14-Sep-1984 12:50:22
                          Process NICE V2.0 requests NMLSV2_CHG_LINE Set V2 line parameters
NML$V2COMP
                                                                                                                                                  VAX-11 Bliss-32 V4.0-742
ENML.SRCJNMLV2COMP.B32;1
V04-000
                           1151
1152
1153
1154
1155
1156
                                        %SBTTL 'NML$V2_CHG_LINE Set V2 line parameters' ROUTINE NML$V2_CHG_LINE : NOVALUE =
: 1163
  1164
  1165
   1166
   1167
                                          FUNCTIONAL DESCRIPTION:
   1168
                                                     This routine is called when NML receives a SET or CLEAR LINE command from a V2 NCP. It transforms the V2 SET or CLEAR LINE command into the appropriate V3 Q10. Note that some V2 line parameters are V3 circuit parameters. Line and circuit parameters may not be
   1169
                           1158
  1170
  1171
  1172
                           1160
                           1161
1162
1163
                                                     mixed in a single V2 command.
  1174
   1175
  1176
1177
                          1164
1165
                                       BEGIN
                          1166
1167
1168
1169
   1178
   1179
                                        MAP
   1180
                                                     NML$GB_ENTITY_FORMAT : BYTE SIGNED;
   1181
   1182
1183
                          1170
                                        LOCAL
                                              FUNCTION.
   1184
                                              NPARSE TAB:
   1185
   1186
                                           Information can be read only from volatile data bases.
   1187
                           1175
                          1176
1177
   1188
                                        IF NOT .NML$GB_OPTIONS [NMA$V_OPT_PER] ! If volatile database requested,
   1189
                                        THEN
                          1178
   1190
                                              BEGIN
   1191
                                                   .NML$GB_OPTIONS [NMA$V_OPT_CLE]
  1192
1193
                          1180
                                              THEN
                           1181
                                                     BEGIN
                          1182
1183
                                                     NPARSE_TAB = NML$NPA_CLEARV2LINE;
FUNCTION = NFB$C_FC_CLEAR;
   1194
   1195
                          1184
1185
   1196
                                                     END
   1197
                                              ELSE
                           1186
   1198
                                                     BEGIN
   1199
                                                     NPARSE TAB = NML$NPA SETV2LINE:
                                                     FUNCTION = NFBSC_FC_SET;
                           188
   1200
   1201
1202
1203
1204
                                              IF NMASNPARSE (NMLSAB NPA BLK, NPARSE TAB)
                            190
                            191
                           192
   1205
1206
1207
1208
1209
1210
1211
1212
1213
1214
1215
1216
1217
1218
                                                     SELECTONEU .NML$GB_ENTITY_FORMAT OF
                                                          SET [NMASC_ENT_KNO]: ! Known NME_V2_DISPATCH (.NML$L_V2_ENTITY, NML_V2_CHG_KNOWN, FUNCTION, 0);
                           194
                            196
197
                            198
199
                           1200
1201
1202
1203
1204
1205
1206
1207
                                                            [1 TO 16]:
                                                                  NML_V2_DISPATCH (.NML$L_V2_ENTITY,
NML_V2_CHG_LINE,
.NMC$GB_ENTITY_FORMAT,
NML$AB_ENTITY_ID,
.FUNCTION);
                                              TES:
NMLSERROR_2 (NMASC_STS_IDE, NMASC_ENT_LIN);
```

\* \* F

(14)

M
N!

(14)

1210

Page

003C 00000 NML\$V2\_CHG\_LINE: Save R2,R3,R4,R5 NML\$GB\_OPTIONS, R5 NML V2\_DISPATCH, R4 NML\$L V2\_ENTITY, R3 NML\$GB\_OPTIONS 1152 00000000G 9E 9E 95 19 E 19 E MOVAB 00009 0000E 00015 68D3 MOVAB MOVAB TSTB 1176 00017 BLSS 00017 00019 00010 00024 00027 00029 1\$: 00030 00033 00035 00042 00042 00045 00045 00046 00050 00052 #6, NML\$GB\_OPTIONS, 1\$
NML\$NPA\_CLEARV2LINE, NPARSE\_TAB
#36, FUNCTION
2\$ 00 1179 BBC 1182 1183 1179 0000000G MOVAB DO MOVL BRB NML \$NPA SETV2LINE, NPARSE\_TAB
#35, FUNCTION
NPARSE\_TAB
NML \$AB NPA BLK
#2, NMA\$NPARSE
R0, 4\$ 00 23 50 0000000G 1187 MOVAB DO 1188 MOVL DD 9F 1191 PUSHL 1190 0000000G 00 02 50 00 50 PUSHAB 00000000G CALLS BLBC NMLSGB\_ENTITY\_FORMAT, RO RO, #-T 35 0000000G CVTBL 1193 FE CMPB 1195 BNEQ -(SP) D4 CLRL 1196 DD 9F 00054 1198 PUSHL **FUNCTION** NML V2 CHG KNOWN NML\$L V2 ENTITY #4, NML V2 DISPATCH 00000000V 00056 1196 PUSHAB DD 0005C PUSHL 0005E 64 FB CALLS 00061 BRB 00063 38: TSTL RO 1200 1 A 50 00065 BEQL 45 00067 10 CMPB RO. #16 0006A 152050655192102 BGTRU 1205 1201 1203 DD 0006C PUSHL **FUNCTION** 0000000G 9F 0006E PUSHAB NML\$AB\_ENTITY\_ID DD 9F 00074 PUSHL NML V2 CHG LINE NML\$L V2 ENTITY #5, NML V2 DISPATCH 00000000V 00076 1201 PUSHAB 00076 0007C 0007E 00081 00083 00086 00086 00085 0008F 00092 00099 DD PUSHL 64 CALLS 1207 PUSHL DD #9, -(SP) MNEGL 0000000G #2. NMLSERROR\_2 CALLS PUSHL 1209 DD

MNEGL

CALLS

RET

#1, -(SP)

#2. NMLSERROR\_1

16-Sep-1984 00:39:41 14-Sep-1984 12:50:22

VAX-11 Bliss-32 V4.0-742 ENML.SRCJNMLV2COMP.B32;1

Routine Base: \$CODE\$ + 0568 : Routine Size: 154 bytes.

0000000G

Process NICE V2.0 requests NML\$V2\_CHG\_LINE Set V2 line parameters

NMLSERROR 1 (NMASC STS FUN, NMASC ENT LIN); END; ! of NMESV2 CHG LINE

NML \$ V2CCMP V04-000

```
Process NICE V2.0 requests
NMLSCHK_V2_CIRC Check Set V2 Circuit parameter 16-Sep-1984 00:39:41
16-Sep-1984 12:50:22
  NML$V2COMP
                                                                                                                                                                                                                                                                                                                                             VAX-11 Bliss-32 V4.0-742
CNML.SRCJNMLV2COMP.B32;1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Page
  V04-000
                                                                                            %SBTTL 'NML$CHK_V2_CIRC =
      Check Set V2 Circuit parameter group'
                                                                                                  FUNCTIONAL DESCRIPTION:
                                                                                                                          This is an NPARSE action routine that is called when parsing a SET LINE command from a V2 NCP. These commands could have both line and circuit parameters in the same command. To adhere with Network Management architecture, we do not allow a mix in a single
                                                                                                                          SET command. Check the parameter code to make sure it is a circuit
                                                                                                                          parameter.
                                                                                                   IMPLICIT INPUTS:
                                                                                                                          NPARSE BLOCK (pointed to by AP) contains the parsed parameter data. NPASL FLDPTR is a pointer to the parameter code in the received
                                                                                                                          message buffer.
                                                                                                                          If the parameter is not a circuit parameter, then an invalid parameter grouping error (NMA$C_STS_PGP) is signalled.
                                                                                           BEGIN
                                                                234
1235
1236
1237
                                                                                           SNPA_ARGDEF;
                                                                                                                                                                                      ! Define NPARSE block reference.
                                                                                                  If this is not a circuit parameter, return error.
       1252
1253
1254
1255
                                                                 240
                                                                                            IF .NML$GL_PRS_FLGS [NML$V_PRS_V2_LINE]
                                                                                        NML$GL PRS FLGS [NML$V PRS V2 CIRCUIT] = 1; ! Set grown of the start o
        1256
1257
1258
1259
1260
                                                                                                                                                                                                                                                                    ! Set grouping flag.
                                                                                                                                                                                                                                                                                                                    NML$CHK_V2_CIRC. Save nothing #6. NML$GL_PRS_FLGS+1. 1$ a20(NPARSE_BLOCK), -($P)
                                                                                                                                                                                                                0000 00000
                                                                                                                                                                                                                                                                                         .ENTRY
                                                                                                                                                                                                                                   00002
                                                                                                OE 00000000G
                                                                                                                                                                                                                                                                                        BBC
                                                                                                                                                                                                                                   0000A
                                                                                                                                                                                                                                                                                        MOVZWL
                                                                                                                                                                                                         BC
1B
02
8F
09
01
                                                                                                                                                                                                                                                                                                                    #27, -(SP)
#2, NML$ERROR_2
#128, NML$GL_PRS_FLGS+1
#9, NML$L_V2_ENTITY
#1, R0
                                                                                                                                                                                                                                   0000E
                                                                                                                                                                                                                       MNEGL
                                                                                                                                                                                                                                  0000E
00011
00018 1$:
00020
00027
0002A
                                                                                                            000000006
000000006
                                                                                                                                                                                                                                                                                      CALLS
BISB2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1244
1245
1246
1247
                                                                                                                                                                                      80
                                                                                                                                                                                                                                                                                        MOVL
                                                                                                            00000000
```

: Routine Size: 43 bytes,

Routine Base:

\$CODE\$ + 0602

MOVL RET

NML VO4

```
NML$V2COMP
V04-000
                                                       Process NICE V2.0 requests

16-Sep-1984 00:39:41

NML$CHK_V2_LINE Check Set V2 Line parameter gro 14-Sep-1984 12:50:22
                                                                                                                                                                                                                                                                                                            VAX-11 Bliss-32 V4.0-742
[NML.SRC]NMLV2COMP.B32;1
                                                                                                                                                                                                                                                                                                                                                                                                                                                    (16)
                                                                                  XSBTTL 'NML$CHK_V2_LINE =
                                                                                                                                                                                              Check Set V2 Line parameter group'
      FUNCTIONAL DESCRIPTION:
                                                                                                             This is an NPARSE action routine that is called when parsing a SET LINE command from a V2 NCP. These commands could have both line and circuit parameters in the same command. To adhere with
                                                                                                             Network Management architecture, we do not allow a mix in a single
                                                                                                             SET command. Check the parameter code to make sure it is a line
                                                                                                             parameter.
                                                                                         IMPLICIT INPUTS:
                                                                                                             NPARSE BLOCK (pointed to by AP) contains the parsed parameter data. NPASL_FLDPTR is a pointer to the parameter code in the received
                                                                                                             message buffer.
                                                           266
267
                                                                                                             If the parameter is not a line parameter, then an invalid parameter grouping error (NMA$(_STS_PGP) is signalled.
                                                                                  BEGIN
                                                                                   SNPA_ARGDEF:
                                                                                                                                                                    ! Define NPARSE block reference.
                                                                                       If this is not a line parameter, return error.
                                                                                   IF .NML$GL_PRS_FLGS [NML$V_PRS_V2_CIRCUIT]
                                                                                  THEN
                                                                                 NMLSERROR_2 (NMASC_STS_PGP, .(.NPARSE_BLOCK [NPASL_FLDPTR])<0.16>);

NMLSGL_PRS_FLGS [NMLSV_PRS_V2_LINE] = 1; ! Set grown start star
                                                                                                                                                                                                                                                  ! Set grouping flag.
                                                                                  END:
                                                                                                                                                                    ! End of NML$CHK_V2_LINE
                                                                                                                                                                                                                                                             .ENTRY
                                                                                                                                                                                                                                                                                       NML$CHK_V2_LINE, Save nothing NML$GL_PRS_FLGS+1
                                                                                                                                                                                                                                                                                                                                                                                                                                                   1249
                                                                                                                                                                                            0000
                                                                                                                                                                                                           00000
                                                                                                                                                                                                             00002
                                                                                                                                                0000000G
                                                                                                                                                                                                                                                             TSTB
                                                                                                                                                                                     OE
BC
                                                                                                                                                                                                             80000
                                                                                                                                                                                                                                                            BGEQ
                                                                                                                                                                                                                                                                                      a20(NPARSE_BLOCK), -(SP)

#27, -(SP)

#2, NML$ERROR_2

#64, NML$GL_PRS_FLGS+1

NML$L_V2_ENTITY

#1, R0
                                                                                                                                                                                                                                                                                                                                                                                                                                                   1280
1279
                                                                                                                                                                                                             0000A
                                                                                                                                                                                                                                                            MOVZWL
                                                                                                                                                                                     1B
02
8F
00
                                                                                                                                                                                                  CE 588 040 00
                                                                                                                                                                                                             0000E
                                                                                                                                                                                                                                                            MNEGL
                                                                                                00000000G
                                                                                                                                      QÕ
                                                                                                                                                                                                                                                            CALLS
BISB2
                                                                                                                                                                                                             00011
                                                                                                                                                                                                             00018 15:
                                                                                                                                     00
                                                                                                                                                000000000
                                                                                                                                                                                                                                                            CLRL
```

MOVL RET

VO

: Routine Size: 42 bytes. Routine Base: \$CODE\$ + 062D

: Routine Size: 21 bytes,

Routine Base:

**\$CODE\$ + 0657** 

NMI VO4

```
NML
VO4
```

(18)

```
NML$V2COMP
V04-000
                      Process NICE V2.0 requests

16-Sep-1984 00:39:41

NML_V2_CMG_LINE Set volatile database line par 14-Sep-1984 12:50:22
                                                                                                                        VAX-11 Bliss-32 V4.0-742
ENML.SRCJNMLV2COMP.B32:1
                      1316
1317
1318
1319
                                 **SBTTL 'NML_V2_CHG_LINE Set volatile database line parameters' ROUTINE NML_V2_CHG_LINE (ENT, LEN, ADR, FCN): NOVALUE =
 FUNCTIONAL DESCRIPTION:
                      This routine adds and clears parameters in the volatile data base for V2 line entities. Since the line entity was broken into the line and circuit entities for V3, this can require a
                                            QIO to either data base. Only the state parameter is updated
                                            in both data bases.
                                   FORMAL PARAMETERS:
                                            ENT
                                                                  Entity type code.
                                                                  Byte count of entity id string.
Address of entity id string.
                                            LEN
                                            ADR
                                            FCN
                                                                  Function (set or clear)
                                 BEGIN
  1351
  1352
1353
1354
1355
1356
1357
                                 MAP
                                            NML$GB_ENTITY_FORMAT : BYTE SIGNED;
                                 LOCAL
                                      STATE LGTH,
MSGSIZE,
  1358
                                      STATUS:
  1359
  1360
1361
1362
1363
1364
1365
1366
1367
1370
1371
1372
1373
1376
1377
1378
1379
                                   If there is a state parameter in the NICE command, add it to the
                                   parameter list using the field ID for the appropriate data base.
                                     .NML$GL_PRS_FLGS [NML$V_PRS_V2_STA]
                                 THEN
                                      BEGIN
                                      IF .FCN EQL NFB$C_FC_CLEAR THEN
                                            STATE_LGTH = 0
                                      ELSE
                                            STATE_LGTH = 1;
                                          ENT EQL NMLSC_LINE
                                       THEN
                                            NML$SAVEPARAM ( CPT$GK_PCLI_STA, .STATE_LGTH, NML$L_STATE)
                                      ELSE
                                            NML$SAVEPARAM ( CPT$GK_PCCI_STA, .STATE_LGTH, NML$L_STATE);
                                 STATUS = NML_V2_CHG_ENTITY (.ENT, .LEN, .ADR, .FCN);
                                    .STATUS
                                     AND .NML$GL_PRS_FLGS [NML$V_PRS_V2_STA]
  1380
1381
1382
1383
1384
1385
1386
1387
                                 THEN
                                         If there is a state change in the NICE command, it must be made
                                         to both the circuit and line data bases. Update the data base
                                         not already done here.
                                       BEGIN
                                       NML $GW_PRMDESCNT = 0:
                                                                             ! Only update the state this time.
                                       IF .ENT EQL NMLSC_LINE
```

```
NMI
VO4
```

```
Process NICE V2.0 requests
NML_V2_CHG_LINE Set volatile database line par 14-Sep-1984 12:50:22
    NML$V2COMP
V04-000
                                                                                                                                            VAX-11 Bliss-32 V4.0-742
[NML.SRC]NMLV2COMP.B32;1
1389
1390
1391
1392
1393
1396
1396
1397
1398
1400
1401
1403
1404
1405
1406
1407
1408
                             THEN
                                                     BEGIN
                                                     ENT = NMLSC_CIRCUIT:
NMLSSAVEPARAM ( CPTSGK_PCCI_STA, .STATE_LGTH, NMLSL_STATE);
                                               ELSE
                                                      BEGIN
                                                     ENT = NMLSC_LINE;
NMLSSAVEPARAM ( CPTSGK_PCLI_STA, .STATE_LGTH, NMLSL_STATE);
                                                STATUS = NML_V2_CHG_ENTITY (.ENT, .LEN, .ADR, .FCN);
                                              END:
.NML$GB_ENTITY_FORMAT EQL NMASC_ENT_KNO THEN
BEGIN
                                                  If updating KNOWN lines, add the entity identification to the NICE response message.
                                               NML$AB_MSGBLOCK [MSB$V_ENTD_FLD] = 1:
NML$AB_MSGBLOCK [MSB$A_ENTITY] = NML$Q_ENTBFDSC;
                                               END:
                                            Build and send the response message.
                                         NML$BLD_REPLY (NML$AB_MSGBLOCK, MSGSIZE);
NML$SEND (NML$AB_SNDBUFFER, .MSGSIZE);
END; ! End of NML_V2_CHG_LINE
```

		03	FC 00000	NML_V2_CHG_LINE	·	
59 557 555 554 51F 24	00000000V 00000000G 00000000G 00000000G	00 8F 8F 00	9E 00002 9E 00009 D0 06010 D0 00017 9E 0001E 9E 00025	MOVAB MOVAB MOVL MOVL MOVAB MOVAB	Save R2.R3,R4.R5,R6.R7,R8,R9 NML V2 CHG ENTITY, R9 NML\$SAVEPARAM, R8 #CPT\$GK_PCCI_STA, R7 #CPT\$GK_PCLI_STA, R6 NML\$AB_MSGBLOCK, R5 NML\$L_STATE, R4 #4, SP	1317
1F 24	00000000G 10	AC	9E 00025 C2 0002C E9 0002F D1 00036	SUEL2 BLBC CMPL	FCN, #36	1348 1351
			12 0003A 04 0003C 11 0003E	BNEQ	18 STATE_LGTH	1352
52	04	01	DO 00040	2\$: TSTL	#1. STATE_LGTH ENT 3\$	1354 1355
		06 14 56 04	D5 00043 12 00046 BB 00048 DD 0004A 11 0004C	BNEQ PUSHR PUSHL	#^M <r2,r4> R6</r2,r4>	1357
		04 14 57	11 0004C BB 0004E DD 00050	38: BRB PUSHR PUSHL	4\$ #^M <r2,r4> R7</r2,r4>	1359
68 7E 7E	0¢	OS AC	FB 00052 7D 00055 7D 00059	48: CALLS 58: MOVQ MOVQ	M3. NML\$SAVEPARAM ADR(SP) ENT(SP)	1361

v04-000	Process NICE V2.0 requ NML_V2_CHG_LINE Set v	. •	se tine				(18)
	0.4	69 53 34 20 000000006 000000006	04 FE 50 DO 53 E 00 B 40 DO 00 D	00063 00066 00060 00073	CALLS MOVL BLBC BLBC CLRW TSTL BNEQ MOVL PUSMA	#4, NML V2_CHG_ENTITY R0, STATUS STATUS, 8\$ NML\$GL_PRS_FLGS+2, 8\$ NML\$GW_PRMDESCNT ENT 6\$ #9, ENT #^M <r2,r4></r2,r4>	1362 1363 1371 1372
	04	AC	09 DO 14 BE 57 DO 07 11	0007C	LUZHL	#9, ENT #^M <r2,r4> R7 7\$</r2,r4>	1375 1376
		04	AC D4 14 BE 56 DC 03 FE	00082 6 <b>\$</b> 00085 00087	PUSHR	ENT #^M <r2,r4> R6</r2,r4>	1380 1381
		68 7E 0C 7E 04	AC 70 AC 70 04 FE 50 DC 00 91	0008C 00090 00094	PUSHL CALLS MOVQ MOVQ CALLS MOVL	#3, NML\$SAVEPARAM ADR, -(SP) ENT, -(SP) #4, NML_V2_CHG_ENTITY R0, STATUS	1383
	FF	8F 00000000G	00 91	0009A B\$	CMPB BNEQ BISB2	NML\$GB_ENTITY_FORMAT, #-1	1385
	14 000000006	65 A5 0110 4020	10 88 C4 98 8F 8E 02 FE	000A4 000A7 000AD 9\$	MOVAB PUSHR CALLS	#16, NML\$AB_MSGBLOCK NML\$Q_ENTBFDSC, NML\$AB_MSGBLOCK+20 #^M <r5.sp></r5.sp>	1391 1392 1397
	00000000G	00 000000006	6E DC 00 9F 02 FE	000BA	PUSHL PUSHAB CALLS RET	#2. NML\$BLD_REPLY MSGS1ZE NML\$AB_SNDBUFFER #2, NML\$SEND	1398

; Routine Size: 200 bytes. Routine Base: \$CODE\$ + 066C

```
NML$V2COMP
V04-000
                           Process NICE V2.0 requests

16-Sep-1984 00:39:41

NML_V2_CHG_ENTITY Set volatile database line p 14-Sep-1984 12:50:22
                                                                                                                                                        VAX-11 Bliss-32 V4.0-742
ENML.SRCJNMLV2COMP.B32;1
   1417
1418
1419
                                         *SBTTL 'NML_V2_CHG_ENTITY Set volatile database line parameters' ROUTINE NML_V2_CHG_ENTITY (ENT, LEN, ADR, FCN) =
                           1401
1402
1403
1404
1406
1406
1408
1416
1416
1416
1416
1417
1418
                                            FUNCTIONAL DESCRIPTION:
                                                       This routine adds or clears the specified V2 parameters in
                                                       the volatile data base entry for the specified component.
                                             FORMAL PARAMETERS:
                                                                                   Entity type code.
Byte count of entity id string.
Address of entity id string.
                                                       ENT
                                                        ADR
                                                       FCN
                                                                                   Function (set or clear)
                                             ROUTINE VALUE:
COMPLETION CODES:
                                                       The translated status of the SET QIO is returned.
                            1420
1421
1422
1423
1424
1425
1427
1428
1429
                                         BEGIN
   1440
   1441
                                         LOCAL
                                                       DB,
SRCHKEY1,
SRCHKEY2,
NFBDSC: DESCRIPTOR,
                                                                                                                  Database ID
                                                                                                                  Search key one ID
                                                                                                                  Search key two ID
                                                                                                                 NFB buffer descriptor
QIO P2 buffer descriptor
QIO P4 buffer descriptor
                                                       P2DSC : DESCRIPTOR.
   1446
   1447
                                                       QBFDSC : DESCRIPTOR.
   1448
                                                       STATUS:
   1449
   1450
1451
1452
1453
1454
1455
1456
                                         STATUS = NML$_STS_SUC;
                                            Get entity information.
                            1436
1437
                                         DB = .NML$AB_ENTITYDATA [.ENT, EIT$B_DATABASE];! Database ID
SRCHKEY1 = .NML$AB_ENTITYDATA [.ENT, EIT$L_SRCH_ID1]; ! Search key one ID
SRCHKEY2 = .NML$AB_ENTITYDATA [.ENT, EIT$L_SRCH_ID2]; ! Search key two ID
                           1438
1439
                            1440
                            1441
1442
1443
1444
1445
1446
   1458
1459
                                            Build the NFB and P2 buffers for the QIO to NETACP.
                                        NML$BLDSETQBF (.FCN, .DB, .SRCHKEY1, .LEN, .ADR, .SRCHKEY2, -1, 0, .NML$Q_NFBBFDSC, NFBDSC, NML$Q_P2BFDSC, P2DSC, NML$Q_QIOBFDSC, QBFDSC);
   1460
   1461
   1462
   1463
   1464
                           1448
1449
1450
1451
1452
1453
1454
1455
   1466
1467
1468
                                            Add the parameters to volatile data base entry.
   1469
1470
                                         STATUS = NML $NETQIO (NFBDSC, P2DSC, O, QBFDSC);
                                          IF .STATUS THEN
   1471
                                                BEGIN
  1472
                                                NML$AB_MSGBLOCK [MSB$L_FLAGS] = 0;
NML$AB_MSGBLOCK [MSB$B_CODE] = NMA$C_STS_SUC;
```

NML VO4

NML\$V2COMP V04-000	Process NICE V2.0 requests NML_V2_CHG_ENTITY Set volatile datab	16-Sep-1984 00:39:41 ease line p 14-Sep-1984 12:50:22	VAX-11 Bliss-32 V4.0-742 ENML.SRCJNMLV2COMP.B32;1	Page 49 (19)
1474 1475 1476	1457 2 END; 1458 2 RETURN .STATUS 1459 1 END;	! End of NML_V2_CHG_ENTITY		

			001C	00000	NML_V2_CHG_ENTI	TY:	4404
	54 56	000000006	00 9E 18 C2 01 D0	00002	MOVAB SUBL2	Save R2,R3,R4 NML\$AB ENTITYDATA+5, R4 #24, SP #1, STATUS	: 1401
50 04	54 55 53 AC 52		18 C2 01 D0 2C C5	00002 00009 0000C 0000F	MOVL MULL3	#1, STATUS #44, ENT, RO	1433 1437
	52	64	40 9A	00014	MOVZBL	M44, ENT, RO NML\$AB_ENTITYDATA+5[RO], DB NML\$AB_ENTITYDATA+6[RO] a(SP)+, SRCHKEY1 NML\$AB_ENTITYDATA+10[RO]	:
	51		9E 00	00018 0001C	PUSHAB MOVL	a(SP)+. SRCHKEY1	1438
		05 A4	AD OF	DOD1E	PUSHAB	NML\$AB_ENTITYDATA+10[RO]	1439
	50		9E DO 5E DD	00023 00026 00028 0002E 00031 00037 0003A	MOVL PUSHL	a(SP)+, SRCHKEY2 SP	1443
		00000000G	00 9F	00028	PUSHAB	NML\$GQ_QIOBFDSC	1443
		000000000	AE 9F 00 9F	0002E	PUSHAB	PZDSC	•
		20	AE 9F	00037	PUSHAB PUSHAB	NML\$Q_P2BFDSC NFBDSC	•
		00000000.	00 9F 7E D4	0003A	PUSHAB	NML\$Q_NFBBFDSC	:
	7E		7E D4	00040	CLRL	-(SP)	: 1115
	16		01 CE 50 DD	00045	PUSHL	#1(SP) SRCHKEY2	1445
	7E	08	AC 7D	00047	POVQ	LEN, -(SP) SRCHKEY1	1444
			51 DD 52 DD	0004B	PUSHL	SRCHKEY1	1117
		10	AC DD	0004F	PUSHL PUSHL	DB FCN	1443
00000000	00		OE FB	00052	CALLS	#14, NML\$BLDSETQBF	
			5E DD 7E D4	00059 0005B	PUSHL CLRL PUSHAB	SP (SD)	: 1452
		10	AE 9F	0005D	PUSHAB	-(SP) P2DSC	
		10	AE 9F	00060	PUSHAB	NFBDSC	
0000000G	00 53		04 FB	00063 0006A	CALLS	M4. NML\$NETQIO	•
	00		50 DO	0006D	MOVL	STATUS 1\$	1453
		00000000G	00 04	00070	CLRL	RO, STATUS STATUS, 1\$ NML\$AB_MSGBLOCK #1, NME\$AB_MSGBLOCK+4	: 1455
00000000	00 50			00076	16. WOVE	M1, NME\$AB_MSGBLOCK+4	: 1456
	20		53 DO 04	0007D 00080	18: MOVL RET	STATUS, RO	1453 1455 1456 1458 1459

; Routine Size: 129 bytes, Routine Base: \$CODE\$ + 0734

```
Process NICE V2.0 requests

NML_V2_CHG_KNOWN Set volatile entity parameter 14-Sep-1984 12:50:22
NML$V2COMP
                                                                                                                             VAX-11 Bliss-32 V4.0-742 [NML.SRC]NMLV2COMP.B32;1
V04-000
                                                                                                                                                                                       (20)
  1478
1479
1480
1481
                                  **SBTTL 'NML_V2_CHG_KNOWN Set volatile entity parameters' ROUTINE NML_V2_CHG_KNOWN (ENT, FCN) : NOVALUE =
                      1461
1462
1463
1464
1465
1466
1468
1469
  1482
1483
1484
1485
                                    FUNCTIONAL DESCRIPTION:
                                             This routine sets or clears the specified parameters for each
                                             of the components of the given entity type.
  1486
1487
1488
1489
1490
                                     INPUTS:
                       1471
1472
1473
                                             ENT
                                                         Entity type code.
                                             FCN
                                                         function (set or clear).
  1491
  1492
                       1475
  1494
                       1476
                                  BEGIN
  1495
                       1477
                      1478
  1496
                                  LOCAL
  1497
                                             BUFEND.
                      1480
1481
1482
1483
  1498
                                             ENTADD.
  1499
                                             ENTLEN,
  1500
                                             LISDSC
                                                          : DESCRIPTOR.
  1501
                                             ENTIDPTR.
  1502
1503
1504
1505
                       1484
                                             PTR,
STATUS
                       1485
                      1486
1487
1488
                                             STRTFLG:
  1506
                                    Process every entry in the data base.
  1507
                       1489
                       1490
                                  STRTFLG = FALSE;
  1509
1510
1511
1512
1513
1514
1515
                      1491
1492
1493
                                  WHILE NMLSGET_ENTITY_IDS (.ENT, NMASC_ENT_KNO, O, .STRTFLG, LISDSC) DO
                                        BEGIN
                      1494
                                        STRTFLG = TRUE;
                      1496
1497
1498
1499
1500
1501
1502
1503
1504
1505
1506
1507
1508
1509
1510
                                        BUFEND = .LISDSC [DSC$A_POINTER] + .LISDSC [DSC$W_LENGTH];
                                        PTR = .LISDSC [DSC$A_POINTER];
  1516
1517
1518
1519
1520
1521
1522
1523
1524
1526
1527
1528
1529
1530
                                        WHILE .PTR LSSA .BUFEND DO
                                             BEGIN
                                             ENTIDPTR = NML$T_ENTBUFFER;
                                             NML$Q_ENTBFDSC [DSC$W_LENGTH] = NML$K_ENTBUFLEN;
                                     Get entity id for SET QIO and id string for response message.
                                             ENTLEN = .(.PIR)<0,16>;
                                             PTR = .PTR + 2;
                                             ENTADD = .PTR;
                                             CHSWCHAR A (.ENTLEN, ENTIDPTR);
ENTIDPTR = CHSMOVE (.ENTLEN,
                                                                     .ENTADD
  1531
1532
1533
                                                                     ENTIDPTR):
                                             PTR = .PTR + .ENTLEN:
  1534
                       1516
                                             NML$Q_ENTBFDSC [DSC$W_LENGTH] = .ENTIDPTR - NML$T_ENTBUFFER;
```

NML! Symb

CPT1 CPT1 CPT1 CPT1 CPT! CPT1 CPT1 CPTS CPT! FLG! NMA! NMA: NMA: NMA: NMA: NMA: NMA: NMA: NMA:

NMA NMA NMA NMA NMA NMA NMA

NMA:

NMA:

NMA:

AMA AMA AMA AMA AMA AMA

NML NML NML NML NML NML

NML

NML

NML NML NML NML NML NML NML

NML

NML\$V2COMP	Process NICE V2.0 requ NML_V2_CHG_KNOWN Set	ests volatile entit	y param	16-Sep- eter 14-Sep-	1984 00:39 1984 12:50	0:41 VAX-11 Bliss-32 V4.0-742 0:22 [NML.SRC]NMLV2COMP.B32;1	Page 5
1535 1536 1537 1538 1539 1540	1610 /	the parameters					
1538	1520 4 NML V2 1521 3 END; 1522 2 END; 1523 1 END;	_CHG_LINE ( .E	NT, .EN	TLEN, .ENTAG	D, .FCN);		
: 1541	1523 1 END; END;		! E	nd of NML_V2	_CHG_KNOWN		
			OFFC	00000 NML_V	2_CHG_KNOW	IN:	. 1/4
		5B 00000000'	00 9E	00002	MOVAB SUBL 2	NML\$T_ENTBUFFER, R11	: 1461
		4100	00 9E 08 C2 58 D4 8F BB 7E D4	00000 NML_V 00002 00009 0000C 0000E 1\$:	CLRL PUSHR	Save R2,R3,R4,R5,R6,R7,R8,R9,R10,R11 NML\$T_ENTBUFFER, R11 #8, SP STRTFLG #^M <r8,sp></r8,sp>	1490
		7E	01 CE	00014	CLRL MNEGL PUSHL CALLS BLBC MOVL MOVZWL	-(3F)	
	00000000G	00	AC DD	00017 0001A	CALLS	#1, -(SP) ENT #5, NML\$GET_ENTITY_IDS	
		58	01 00	00021	MOVL	#5, NML\$GET_ENTITY_IDS RO. 3\$ #1, STRTFLG	1494
		5A 04 56 04	AE CO	00027 0002A 0002E	ADDL2 MOVL	LISDSC, BUFEND LISDSC+4, BUFEND LISDSC+4, PTR	1490

		5B 5E	00000000	00 08 58 8F	9E 00002 C2 00009 D4 0000C		MOVAB SUBL2	NML\$T_ENTBUFFER, R11  #8, SP  STRTFLG  #^M <r8,sp></r8,sp>	1461
		7E	4100	8F	BB 0000E	15:	CLRL PUSHR CLRL	-(SP)	1490
	000000006	00	04	AC 05	9E 00002 C2 00009 D4 0000C BB 0000E D4 00012 CE 00014 DD 00017 FB 0001A E9 00021 D0 00024		CLRL MNEGL PUSHL CALLS BLBC	#1, -(SP) ENT #5, NML\$GET_ENTITY_IDS	
		58 5A 5A 5A	04	01 6E	00 00024 3C 00027		MOVZWL ADDL2	RO. 3\$ #1. STRTFLG LISDSC. BUFEND LISDSC+4. BUFEND LISDSC+4. PTR PTR. BUFEND 15	1494 1496
		56 5A	04	AE AE 56	CO 0002A DO 0002E D1 00032	2\$:	MOVL CMPL BGEOU	LISDSC+4, PTR PTR, BUFEND	1497 1499
	40	53 AB 57	40	6B 8F 86 56	0002A 00002E 00003E 000037 9E 00037 9B 0003A 3C 0003F 000042 90 00042 90 00045 28 00046 00057 000057 000057 000058 000056 000061		MOVL CMPL BGEQU MOVAB MOVZBW MOVZWL	NML\$T ENTBUFFER, ENTIDPTR #64, RML\$Q ENTBFDSC (PTR)+, ENTLEN PTR, ENTADD ENTLEN, (ENTIDPTR)+ ENTLEN, (ENTADD), (ENTIDPTR) ENTLEN, PTR NML\$T ENTBUFFER, RO PO ENTIDPTR NML\$0 ENTREDSC	1502 1503 1507 1509 1510 1513 1514
63		59 83 69 56 50 53		57 57 57	90 00045 28 00048 CO 0004C		MOVL MOVB MOVC3 ADDL2 MOVAB SUBW3 PUSHL PUSHL PUSHL	ENTLEN, (ENTIDPTR)+ ENTLEN, (ENTADD), (ENTIDPTR) ENTLEN, DTD	1509 1510 1513
AB		50	08	6B 50	9E 0004F A3 00052 DD 00057		MOVAB SUBW3 PUSHL	NML\$T_ENTBUFFER, RO RO, ENTIDPTR, NML\$Q_ENTBFDSC FCN	1516
	FE51	CF	0280 04	AC 8F AC 04	BB 0005A DD 0005E FB 00061		LALLS	WAM <r7,r9> ENT W4, NML_V2_CHG_LINE 2\$</r7,r9>	
				CA	11 00066 04 00068	3\$:	BRB	25	: 1499 : 1523

NML!

PSE

Phase Initi Comm Pass Symt Pass Symt Psec Cros Asset

The 1200 Ther 335 31 p

1293

Ther

MACE

; Routine Size: 105 bytes, Routine Base: \$CODE\$ + 0785

: 1542 1524 1

NML\$V2COMP Process NICE V2.0 requests
NML\_V2\_CHG\_KNOWN Set volatile entity parameter 14-Sep-1984 00:39:41 VAX-11 Bliss-32 V4.0-742 ENML.SRCJNMLV2COMP.B32;1 Page 52 (21) : 1544 1525 1 END 1526 0 ELUDOM ! End of module PSECT SUMMARY Name Bytes Attributes NOVEC. WRT. RD .NOEXE.NOSHR. NOVEC.NOWRT. RD .NOEXE.NOSHR. NOVEC.NOWRT. RD . EXE.NOSHR. NOVEC.NOWRT.NORD .NOEXE.NOSHR.

REL. REL. ABS.

LCL.

LCL.

CON, NOPIC, ALIGN(2) CON, NOPIC, ALIGN(2) CON, NOPIC, ALIGN(2) CON, NOPIC, ALIGN(0)

## Library Statistics

File	Total	Symbols Loaded	Percent	Pages Mapped	Processing Time
_\$255\$DUA28:[NML.OBJ]NMLLIB.L32;1 _\$255\$DUA28:[SHRLIB]NMALIBRY.L32;1 _\$255\$DUA28:[SYSLIB]STARLET.L32;1 _\$255\$DUA28:[SHRLIB]NET.L32;1	341 887 9776 1279	56 31 27	16 3 0 2	27 47 581 63	00:00.1 00:00.2 00:02.2 00:01.0

## COMMAND QUALIFIERS

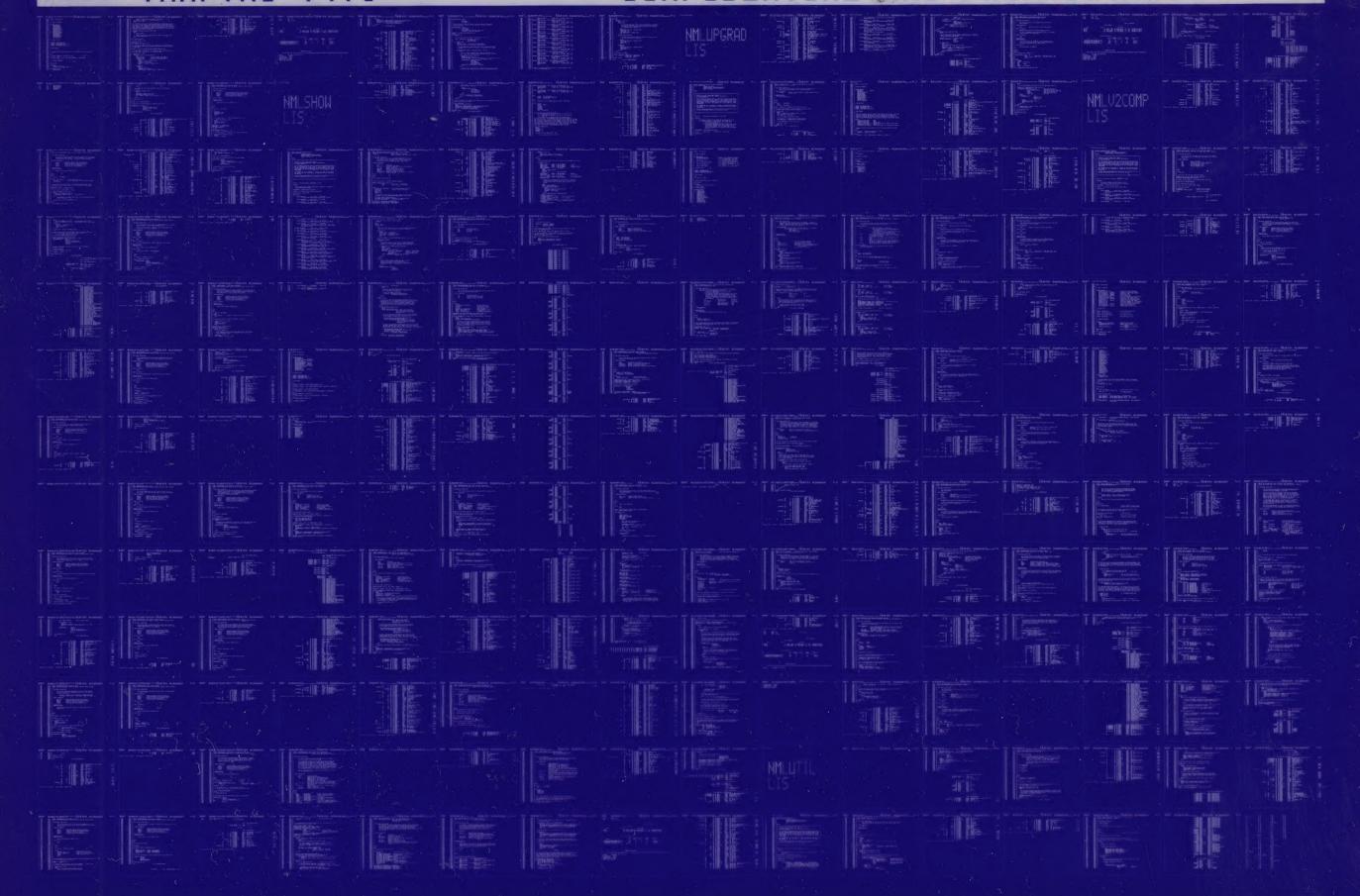
BLISS/CHECK=(FIELD, INITIAL, OPTIMIZE)/LIS=LIS\$:NMLV2COMP/OBJ=OBJ\$:NMLV2COMP MSRC\$:NMLV2COMP/UPDATE=(ENH\$:NMLV2COMP)

: Size: 2078 code + 632 data bytes
: Run Time: 00:40.9
: Elapsed Time: 01:20.4
: Lines/CPU Min: 2238
: Lexemes/CPU-Min: 15895
: Memory Used: 174 pages
: Compilation Complete

SOWNS SPLITS \$CODE\$ . ABS \*\*F

0287 AH-BT13A-SE

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